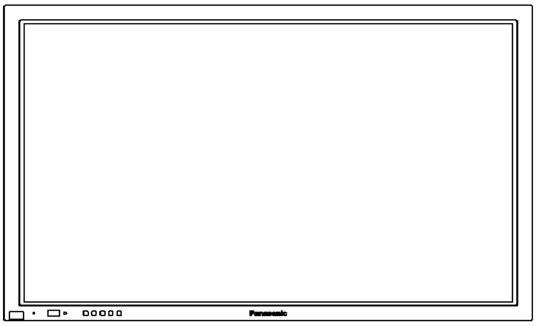
ORDER NO. ITD0308027C0
D10 Canada: B07

Service Manual

High Definition Plasma Display

TH-42PHW6EX / TH-42PHD6EX / TH-42PHD6BX / TH-42PHD6UY

GPH6D Chassis



SPECIFICATIONS

Specifications

Power Source:	AC120V 50/60Hz (UY version) AC220-240V 50/60Hz (Except UY version model)
Power Consumption:	265 W Save off 1.6 W, Save on 0.9 W (stand-by condition) (UY version) Save off 1.9 W, Save on 1.1 W (stand-by condition) (Except UY version model) 0.2 W (Power off condition) (UY version model) 0.4 W (Power off condition) (Except UY version model)
Plasma Display panel:	Drive method AC type 16:9 aspect ratio
Contrast Ratio	3000:1
Screen size:	920 mm (W) × 518 mm (H) 1,056 mm (diagonal) No. of pixels 786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]

Operating condition:	
Temperature	**34 °F - 104 °F (0 °C - 40 °C)**
Humidity	**20 % - 80 %**
	Horizontal scanning frequency 15 - 110kHz
	Vertical scanning frequency 48 - 120Hz
Connection terminals:	
AV	
Video in	**1.0 Vp-p (75-ohm)**
S-VIDEO IN / (MINI DIN 4PIN)	**Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm)**
AUDIO IN / (RCA PIN JACK × 2)	**0.5 Vrms (high impedance)**
COMPONENT/RGB	
Y/G	**1.0 Vp-p/composite (75-ohm)**
	0.7 Vp-p/non-composite (75-ohm)
PB /B	**0.7 Vp-p (75-ohm)**
PR /R	**0.7 Vp-p (75-ohm)**
HD	**1.0 - 5.0 Vp-p (high impedance)**
VD	**1.0 - 5.0 Vp-p (high impedance)**
AUDIO IN (RCA PIN JACK×2)	**0.5 Vrms (high impedance)**
PC	
(HIGH-DENSITY D-SUB15PIN)	**R,G,B/0.7 Vp-p (75-ohm)**
	HD, VD/1.0 - 5.0 Vp-p (high impedance)
AUDIO IN (M3 JACK)	**0.5Vrms (high impedance)**
SERIAL	
EXTERNAL CONTROL TERMINAL (D-SUB9PIN)	**RS-232C COMPATIBLE**
SPEAKERS (External speakers) (6 Ω)	**16W [8W+8W] (10% THD)**
Dimensions (W×H×D):	**1,020 mm × 610 mm 89 mm**
Weight (Mass)	**approx. 29.5 kg net (main unit only)**
	approx. 33.7 kg net (with speakers)

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

1. Applicable signals

VIDEO input

	signal name	horizontal frequency(kHz)	vertital frequency(Hz)
1	NTSC	15.734	59.95
2	PAL	15.625	50
3	PAL60	15.734	59.95
4	SECAM	15.625	50
5	Modified NTSC	15.734	59.95

∗ Mark:
By installing the optional Terminal Board.

Applicable input signals for PC Input (D-sub 15P) (* Mark)

	signal name	horizontal frequency(kHz)	vertital frequency(Hz)	RGB	PC	when Multi Screen and Digital Zoom
1	525(480)/60i	15.73	59.94	∗	∗	∗
2	525(480)/60p	31.47	59.94	∗	∗	∗
3	625(575)/50i	15.63	50.00	∗	∗	∗
4	625(575)/50p	31.25	50.00	∗	∗	∗
5	750(720)/60p	45.00	60.00	∗	∗	∗
6	750(720)/50p	37.50	50.00	∗	∗	∗
7	1,125(1,080)/60i	33.75	59.94	∗	∗	∗
8	1,125(1,080)/50i	28.13	50.00	∗	∗	∗
9	1,125(1,080)/24p	27.00	24.00	∗	∗	
10	1,125(1,080)/24sF	27.00	48.00	∗	∗	∗
11	1,250(1,080)/50i	31.25	50.00	∗	∗	∗
12	640 × 400@70 Hz	31.47	70.00		∗	∗
13	640 × 480@60 Hz	31.47	59.94		∗	∗
14	Macintosh13"(640 × 480)	35.00	66.67		∗	∗
15	640 × 480@75 Hz	37.50	75.00		∗	∗
16	852 × 480@60 Hz	31.50	60.00		∗	∗
17	800 × 600@60 Hz	37.88	60.32		∗	∗
18	800 × 600@75 Hz	46.88	75.00		∗	∗
19	800 × 600@85 Hz	53.67	85.06		∗	∗
20	Macintosh16"(832 × 624)	49.73	74.55		∗	∗
21	1,024 × 768@60 Hz	48.36	60.00		∗	∗
22	1,024 × 768@70 Hz	56.48	70.07		∗	∗
23	1,024 × 768@75 Hz	60.02	75.03		∗	∗
24	1,024 × 768@85 Hz	68.68	85.00		∗	∗
25	Macintosh21"(1,152 × 870)	68.68	75.06		∗	
26	1,280 × 1,024@60 Hz	63.98	60.02		∗	
27	1,280 × 1,024@75 Hz	79.98	75.03		∗	
28	1,280 × 1,024@85 Hz	91.15	85.02		∗	
29	1,600 × 1,200@60 Hz	75.00	60.00		∗	
30	1,0660 × 600@60 Hz	37.88	60.32		∗	∗
31	1,366 × 768@60 Hz	48.36	60.00		∗	∗

2. Safety Precautions

2.1. General Guidelines

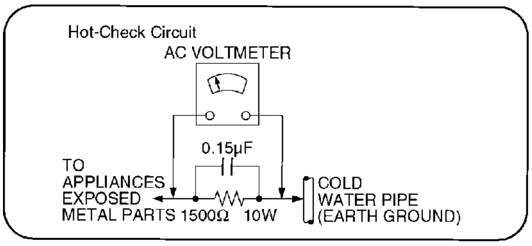
1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the

jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to thechassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be∞.

Figure 1



2.1.2. Leakage Current Hot Check (See Figure 1 .)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 µ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1 .
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outsideof the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

3. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such

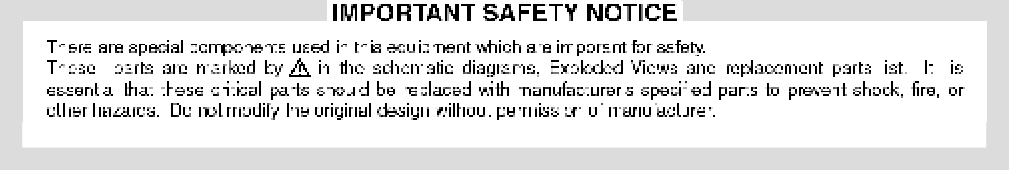
components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistorsand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparableconductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing**

together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).

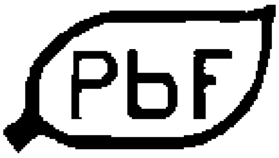


IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4. About lead free solder (PbF)

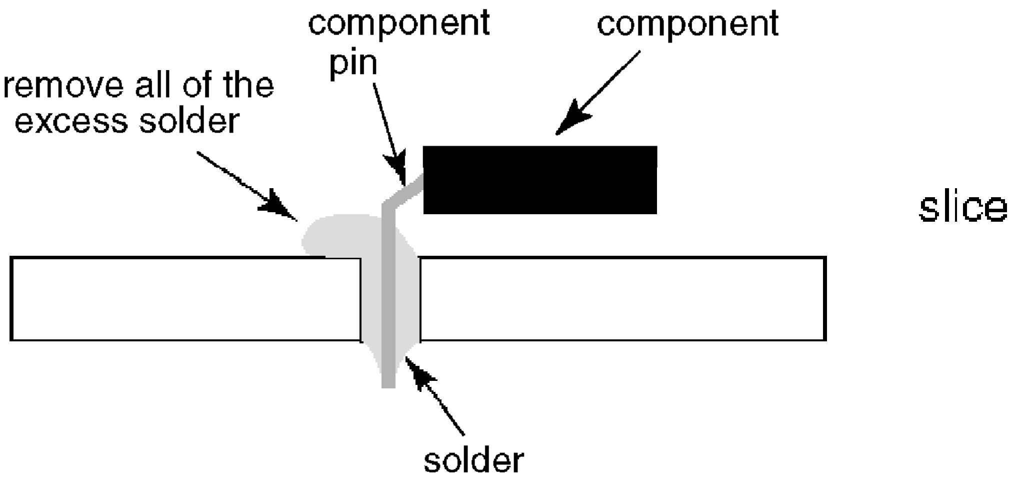
Note: Lead is listed as (Pb) in the periodic table of elements.
In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.
The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.
This model uses Pb Free solder in it's manufacture due to environmental conservation issues.
For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.
PCBs manufactured using lead free solder will have the PbF within a leaf Symbol



stamped on the back of PCB.

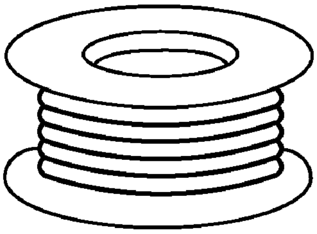
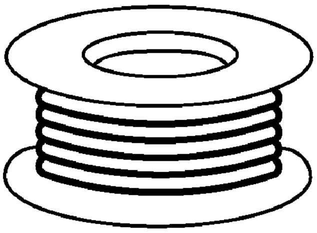
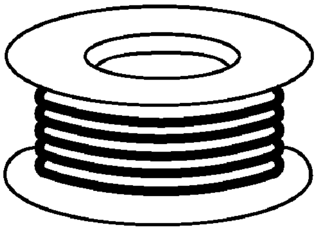
Caution

- **Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).**
- **Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).**
  If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- **After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)**


component
pin
component
remove all of the
excess solder
slice
solder

Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also beused.

0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

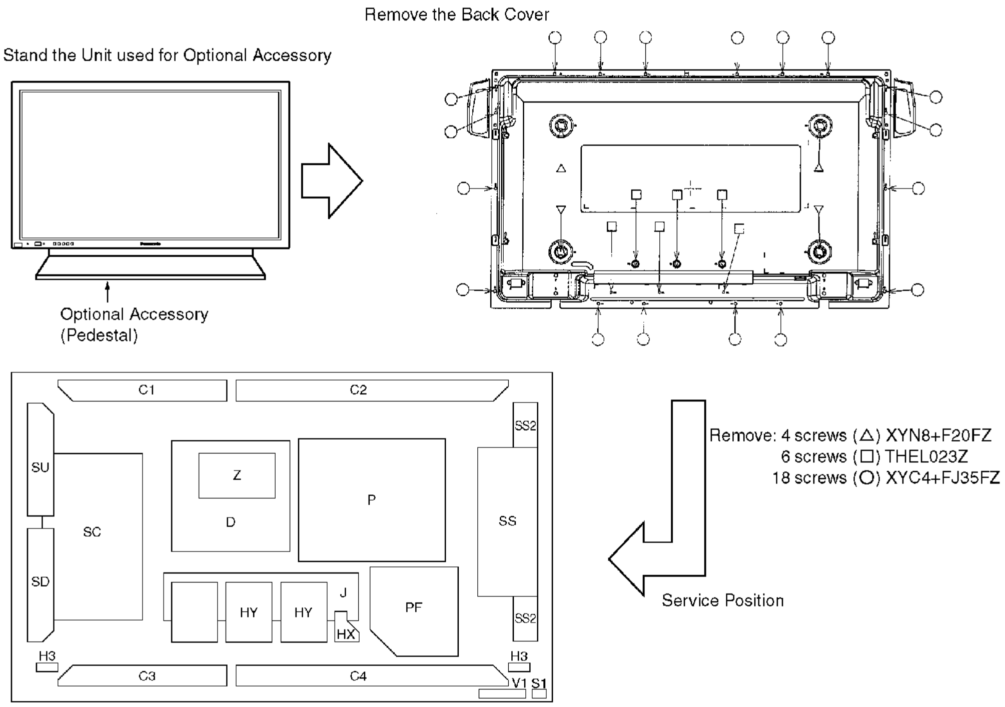
5. PCB Structure sheet of GPH6D chassis

Board Name	Function	Remarks
D	Digital Signal Processor	1
J	Slot Interface & SYNC processor	1
Z	Audio out, DC-DC converter	
SS	Sustain Out	1
SC	Scan out	1
SU	Sustain connection (Upper)	1
SD	Sustain connection (Lower)	1
C1	Data Drive (Upper Right)	
C2	Data Drive (Upper Left)	
C3	Data Drive (Lower Left)	
C4	Data Drive (Lower Left)	
H3	Speaker terminal	
S1	Power switch	
SS2	Sustain connection (Upper)	
SS3	Sustain connection (Lower)	
V1	Front SW. & Remote receiver	
PF	Line filter	
P	Power supply	1
HX	PC_type_Input terminal	
HY	BNC Composite/Component Video	2
HZ	BNC Component Video	3

Remarks

1. Recommend PCB's for initial service for GPH6D chassis.
2. For System model except BX, EX version
3. For Consumer model except BX, EX version

6. Service Hint



Stand the Unit used for Optional Accessory

Optional Accessory
(Pedestal)

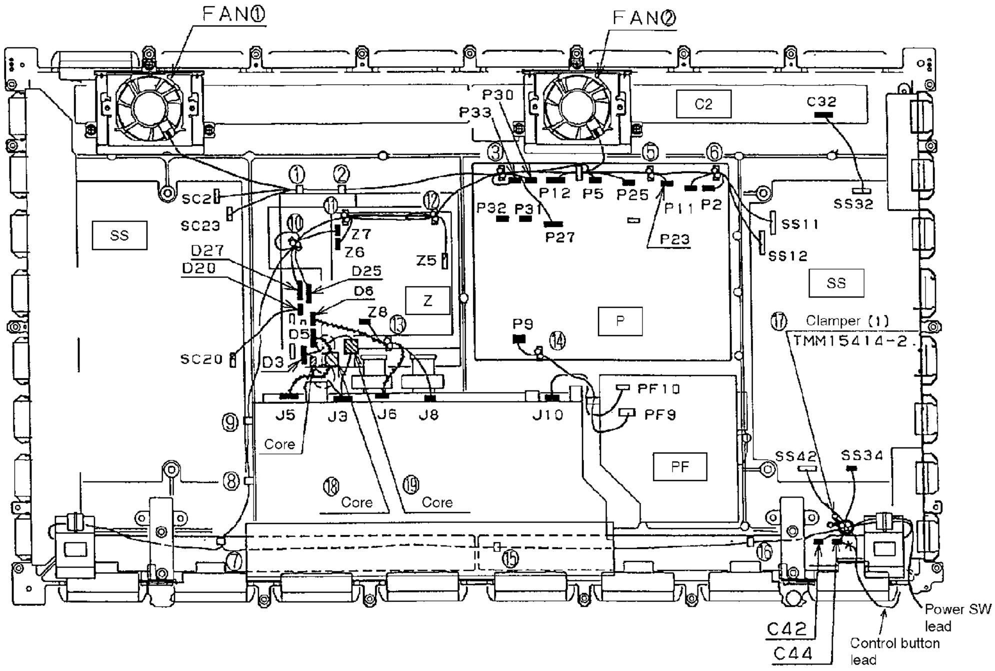
Remove the Back Cover

Remove: 4 screws (△) XYN8+F20FZ
6 screws (□) THEL023Z
18 screws (○) XYC4+FJ35FZ

Service Position

C1
C2
SS2
SU
Z
P
D
SC
SS
SD
J
HY
HY
PF
HX
SS2
H3
H3
C3
C4
V1
S1

7. Location of Lead Wiring


FAN①
FAN②
P30
P33
C2
C32
SS32
③
⑤
⑥
P12
P5
P25
P11
P2
P32
P31
P27
P23
SS11
SS12
SS
SC2
SC23
D27
D20
①
②
⑪
⑫
⑩
Z7
Z6
D25
Z5
D6
Z
Z8
⑬
D5
SC20
D3
P9
⑭
P
⑰ Clamper (1)
TMM15414-2
PF10
PF9
J5
J3
J6
J8
J10
⑨
Core
⑧
⑱
Core
⑲
Core
PF
SS42
SS34
⑦
⑮
⑯
Power SW lead
C42
C44
Control button lead

CON:NO — CON:NO \ CLAMPER	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
SC2 — P2	○	○	○	○	○	○														
SC23 — P23	○	○	○	○	○															
SC20 — D20																				
D27 — P27			○							◎	○	○								
D25 — P25			○	○						◎	○	○								
D3 — J3																			○	
D6 — J6													○							
Z8 — J8													○							
D5 — J5																		○		
Z5 — P5			○	○								◎								
SP (SC SIDE) — Z7							○	○	○	○										
SP (SS SIDE) — Z6							○	○	○	○	○				○	○	○			
SS12 — P12				○	○	○														
SS11 — P11						○														
SS42 — C42																	○			
SS32 — C32																				
POWER SW — SS34																	○			
CONTROL BUTTON — C44																	○			
PF9 — P9														○						
PF10 — J10																				
FAN① — P30	○	○	○																	
FAN② — P33			○	○																

◎ Wind up second times.

Connector Connection:
P2, P5, P9, P11, P12, P23, P25, P27, P30, P31, P32, P33
Z6, Z7, Z8,
D3, D5, D6, D20, D25, D27
J3, J5, J6, J8, J10,
SS34,
C23, C42, C44

8. Adjustment Procedure

8.1. Driver Set-up

8.1.1. Item / Preparation

1. Input an APL 100 % white signal.

2. Set the picture controls: -
Picture mode: Normal
White balance: Cool
Aspect: 16:9

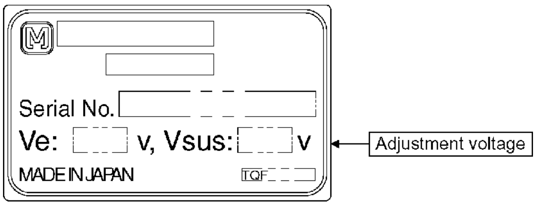
8.1.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	170V ± 2V	VR641 (P)	
Ve	TPVE (SS)	150V ± 1V	R6770 (SS)	
Vset	TPVSET (SC)	220V ± 5V	---	
Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
Vscn	TPVSCN (SC)	Vad*+118V ± 2V	---	
Vda	TPVDA (SS)	67V ± 1V	VR665 (P)	

***See the Panel label.**

Panel Label information



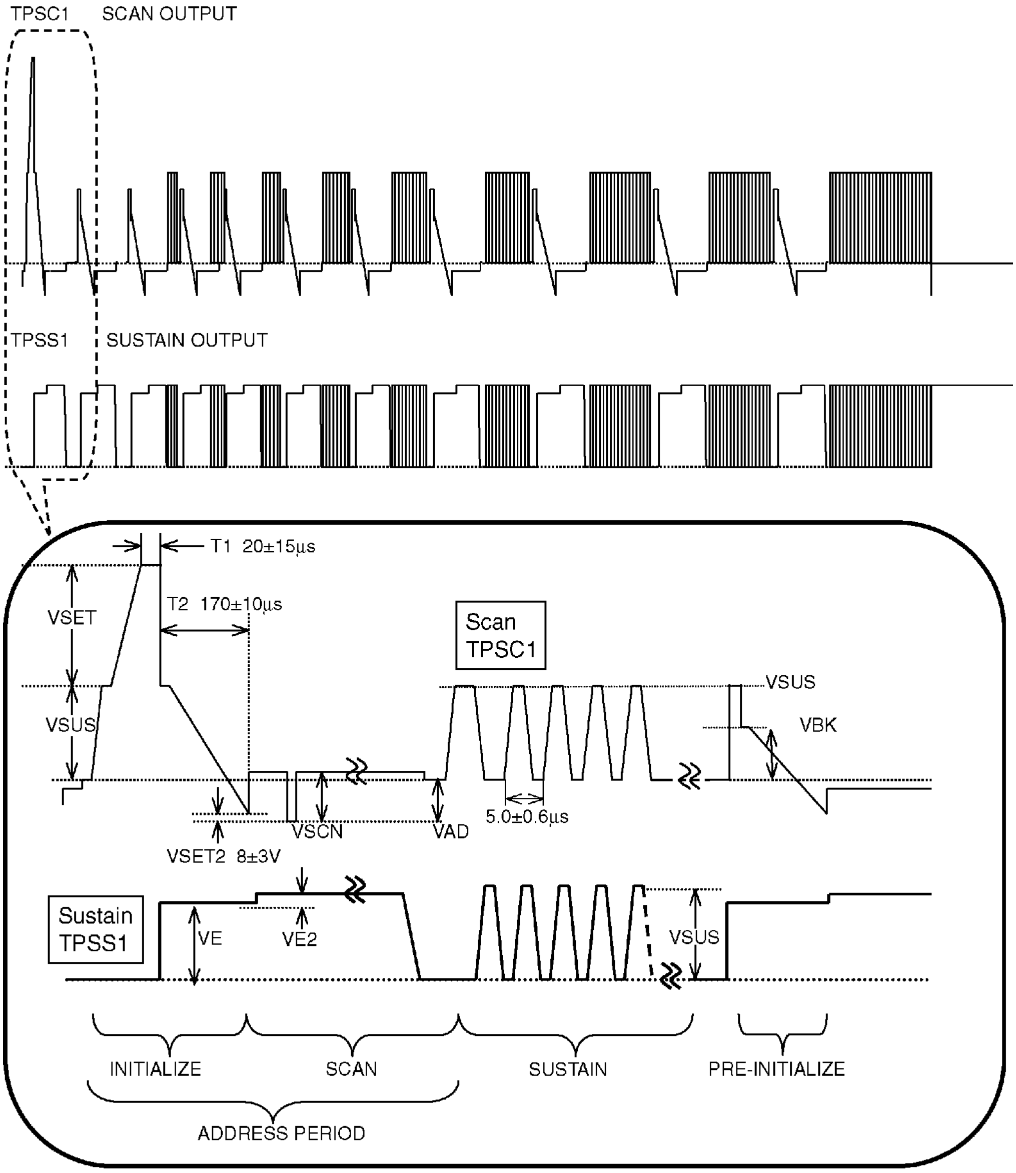
8.2. Initialization Pulse Adjust

1. Input a Cross hatch signal.

2. Set the picture controls: -
Picture mode: Normal
White balance: Cool

Adjust the indicated test point for the specified wave form.

	Test point	Volume	Level
T1	TPSC1 (SC)	---	20 ± 15 μ Sec
T2	TPSS1 (SS)	R6557 (SC)	170 ± 10 μ Sec


TPSC1
SCAN OUTPUT
TPSS1
SUSTAIN OUTPUT
T1 20±15μs
T2 170±10μs
VSET
VSUS
Scan
TPSC1
VSUS
VBK
VSET2 8±3V
VSCN
VAD
5.0±0.6μs
Sustain
TPSS1
VE
VE2
VSUS
INITIALIZE
SCAN
SUSTAIN
PRE-INITIALIZE
ADDRESS PERIOD

8.3. P.C.B. (Printed Circuit Board) exchange

8.3.1. Caution

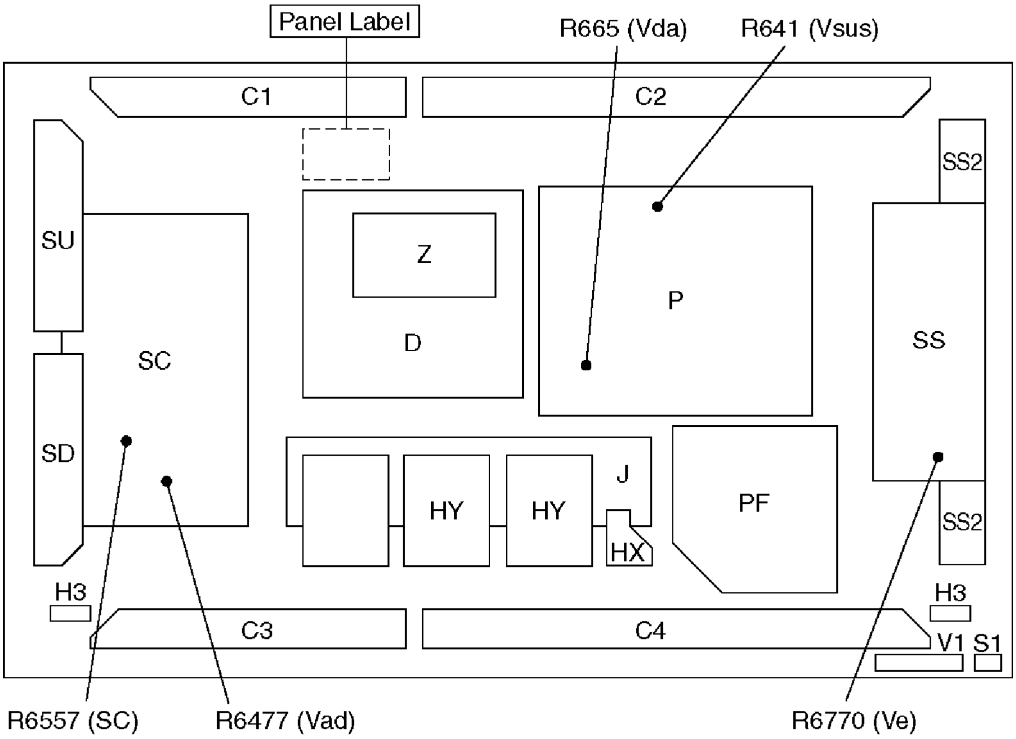
1. **To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.**

8.3.2. Quick adjustment after P.C.B. exchange

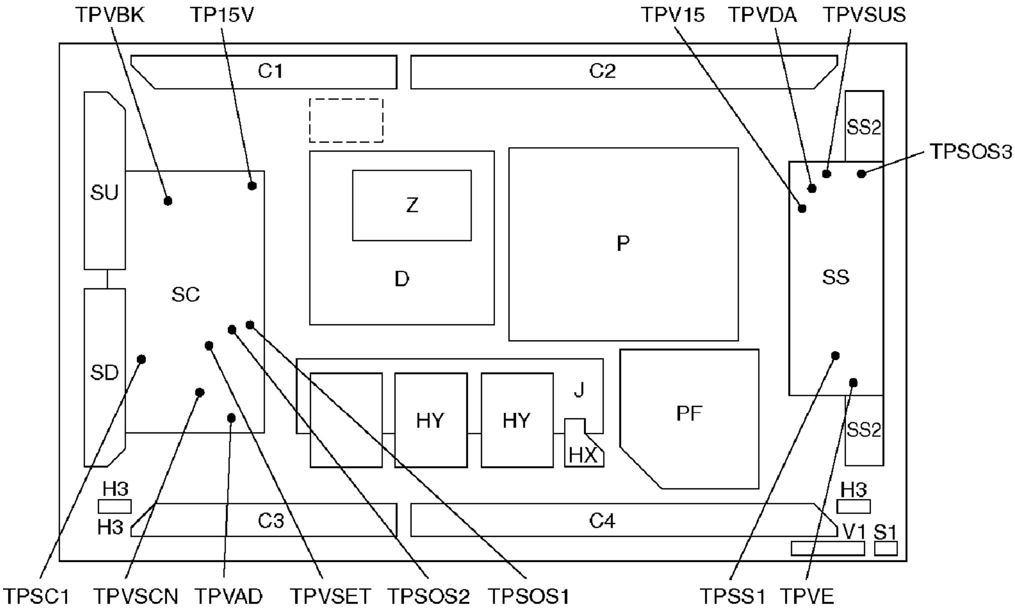
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	**Vsus**	**TPVSUS (SS)**	**170V ± 2V**	**R641 (P)**	
	Vda	**TPVDA (SS)**	**67V ± 1V**	**R665 (P)**	
SC Board	**Vad**	**TPVAD (SC)**	**-90V ± 1V**	**R6477 (SC)**	
	Vset	**TPVSET (SC)**	**220V ± 5V**	**---**	
	Vscn	**TPVSCN (SC)**	**Vad + 118 ± 2V**	**---**	
SS Board	**Ve**	**TPVE (SS)**	**158V ± 1V**	**R6770 (SS)**	
D, J Board	**White blance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625i signal**				

***See the Panel label.**

8.4. Adjustment Volume Location


Panel Label
R665 (Vda)
R641 (Vsus)
C1
C2
SS2
SU
Z
P
SC
D
SS
SD
J
HY
HY
PF
HX
SS2
H3
H3
C3
C4
V1
S1
R6557 (SC)
R6477 (Vad)
R6770 (Ve)

8.5. Test Point Location


TPVBK
TP15V
TPV15
TPVDA
TPVSUS
C1
C2
SS2
TPSOS3
SU
Z
D
P
SS
SC
SD
J
HY
HY
PF
HX
SS2
H3
H3
C3
C4
H3
V1
S1
TPSC1
TPVSCN
TPVAD
TPVSET
TPSOS2
TPSOS1
TPSS1
TPVE

9. Service mode

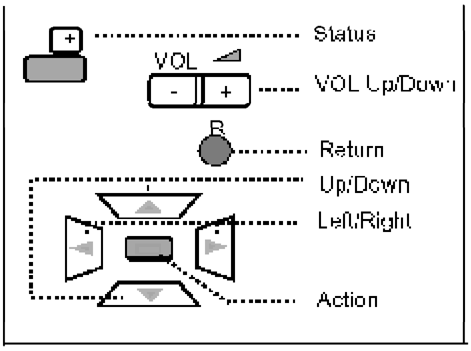
9.1. CAT (computer Aided Test) mode

CAT mode menu

CAT Panel sys8.2
IIC Mode
CD Mode
SD Mode
MS Mode
ID Mode

Mode	Function	Access button
IIC	Service Alignment	Action
CD(Complete Diagnostics)	Software version information EEPROM edit	Mute more than 5 seconds
SD(Status Display)	MTBF parameter	Action
MS Mode	Not use	-----
ID	Not use	-----

Remote control


+
VOL
-
+
B
Status
VOL Up/Down
Return
Up/Down
Left/Right
Action

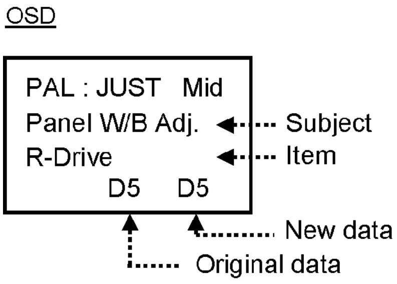
How to access the CAT mode.

Press and hold the Volume down / - button on the front panel of the unit and press the status button on the remote control 3 times quickly within 1 second, this will place the unit into the CAT mode.

To exit the CAT mode , access the ID mode and switch off the main power.

9.1.1. IIC mode

Select the IIC mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.


OSD
PAL : JUST Mid
Panel W/B Adj.
R-Drive
D5 D5
Subject
Item
New data
Original data

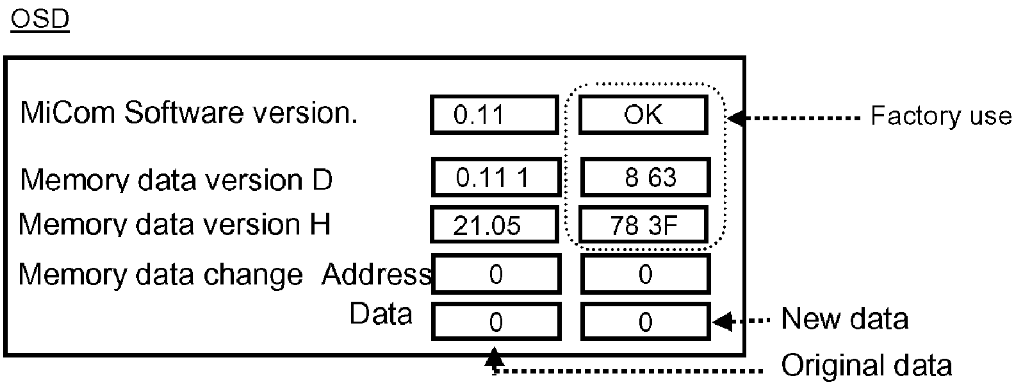
How to use the IIC mode.

1. Select the alignment **Subject** by **Up/Down buttons** on the remote control.
2 .Select the alignment **Item** by **Left/Right buttons** on the remote control.
3. Adjust **optimum setting** by **Volume Up/Down buttons** on the remote control.
4. The **data is memorized** when press the **R button** on the remote control or change the alignment Subject (or Items).

Subject and item are mentioned on page 14.
To exit the IIC mode, press the R button on the remote control.

9.1.2. CD mode

Select the CD mode by Up/Down button on the remote control at the front page of CAT mode then press the Mute button on the remote control more than 5 sec.

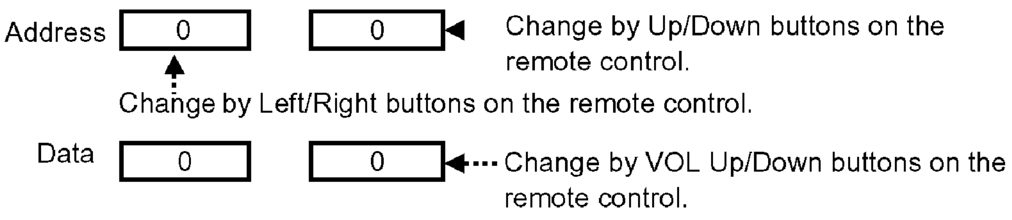

OSD
MiCom Software version.
0.11
OK
Factory use
Memory data version D
0.11 1
8 63
Memory data version H
21.05
78 3F
Memory data change Address
0
0
Data
0
0
New data
Original data

Micom software version (IC9354), this version can be upgrade by

1. replace of new version IC

2. Loading the new version software from loader tool, TZSC07036.

Memory data change


Address
0
0
Change by Up/Down buttons on the remote control.
Change by Left/Right buttons on the remote control.
Data
0
0
Change by VOL Up/Down buttons on the remote control.

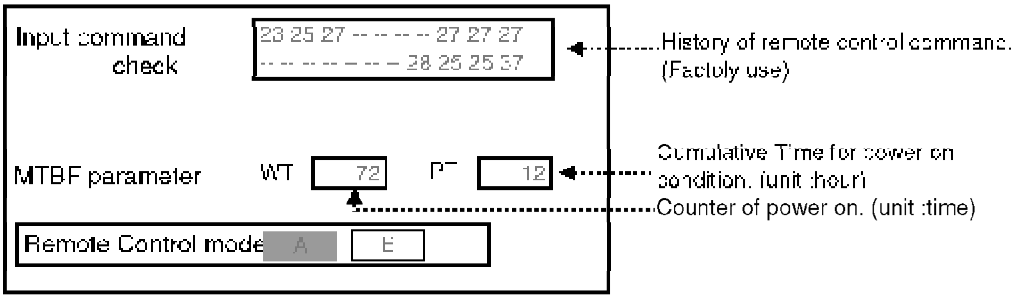
The data is memorized when switch off the main power.

To exit the CD mode, press the R button on the remote control.

9.1.3. SD mode

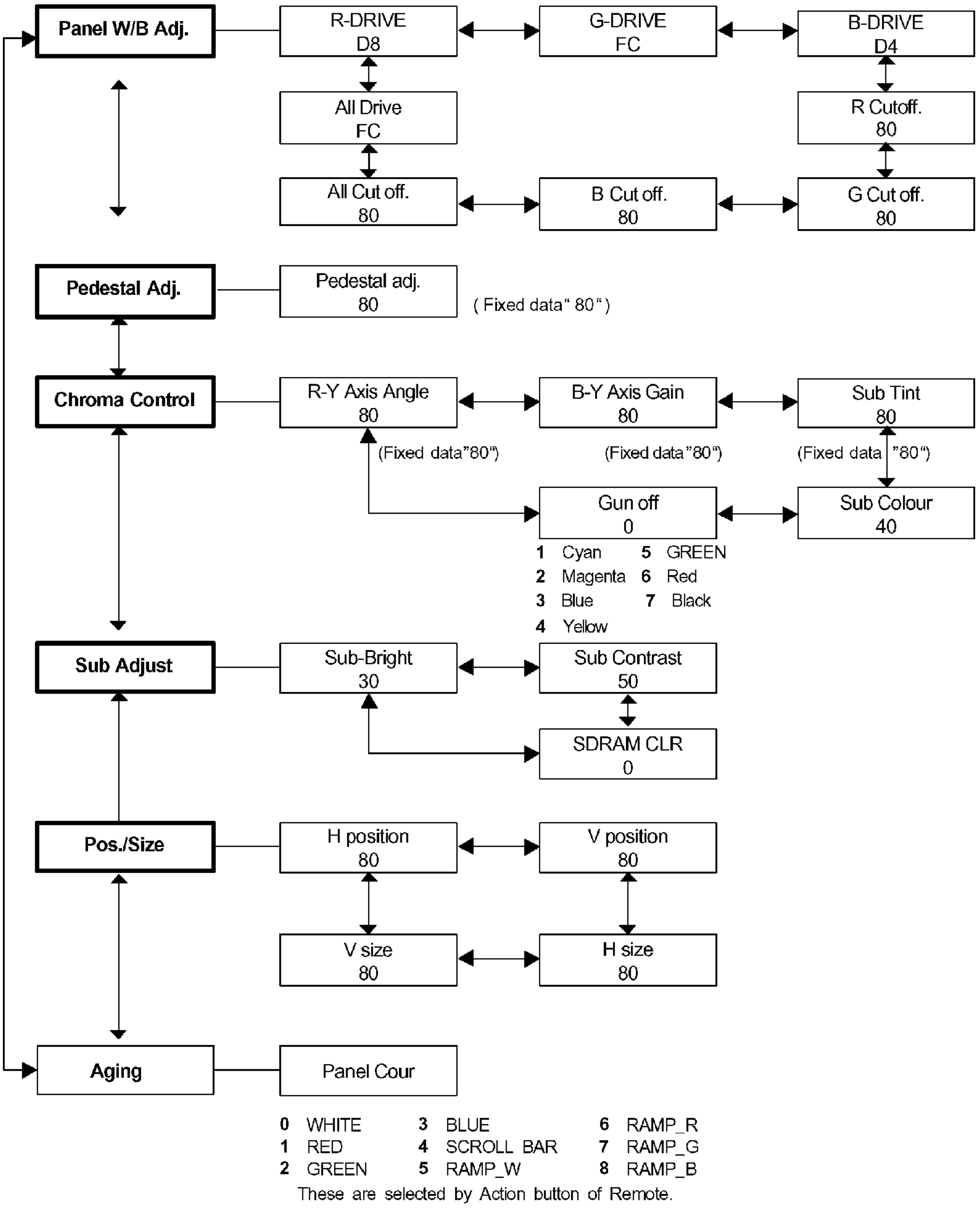
Select the SD mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.

OSD


Input command check
23 25 27 -- -- -- -- 27 27 27
-- -- -- -- -- -- -- 28 25 25 37
History of remote control command.
(Factory use)
MTBF parameter
WT
72
PT
12
Cumulative Time for power on condition. (unit :hour)
Counter of power on. (unit :time)
Remote Control mode
A
E

To exit the SD mode, press the R button on the remote control.

9.2. IIC mode structure (following items value is sample data.)


Panel W/B Adj.
R-DRIVE
D8
G-DRIVE
FC
B-DRIVE
D4
All Drive
FC
R Cutoff.
80
All Cut off.
80
B Cut off.
80
G Cut off.
80
Pedestal Adj.
Pedestal adj.
80
(Fixed data“ 80“)
Chroma Control
R-Y Axis Angle
80
B-Y Axis Gain
80
Sub Tint
80
(Fixed data”80“)
(Fixed data”80“)
(Fixed data ”80“)
Gun off
0
Sub Colour
40
1 Cyan
5 GREEN
2 Magenta
6 Red
3 Blue
7 Black
4 Yellow
Sub Adjust
Sub-Bright
30
Sub Contrast
50
SDRAM CLR
0
Pos./Size
H position
80
V position
80
V size
80
H size
80
Aging
Panel Cour
0 WHITE
1 RED
2 GREEN
3 BLUE
4 SCROLL BAR
5 RAMP_W
6 RAMP_R
7 RAMP_G
8 RAMP_B
These are selected by Action button of Remote.

10. Alignment

10.1. Pedestal setting (C)

Note:
OSD is the difference between UY model and Except UY model. / Picture: Normal (Except UY)/ Standard (UY model) / White balance (Except UY)/Color Temp (UY model)

10.2. Pedestal setting (B)

Note:
OSD is the difference between UY model and Except UY model. / Picture: Normal (Except UY)/ Standard (UY model) / White balance (Except UY)/Color Temp (UY model)

10.3. NTSC panel white balance

10.4. PAL/SECAM panel white balance

10.5. PC/RGB panel white balance

10.6. HD/ 525i /525p /625I /625P panel white balance

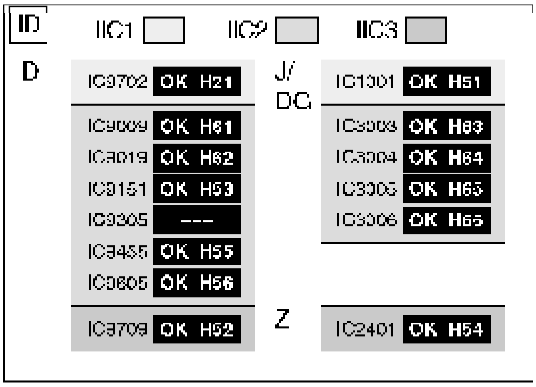
11. Trouble shooting guide

11.1. Self Check

11.1.1. Display Indication

1. **Self-check is used to automatically check the bus line controlled circuit of the Plasma display.**
2. **To get into the Self-check mode, press the volume down button on the customer controls at the front of the set, at the same time pressing the OFF-TIMER button on the remote control, and the screen will show :-**

If the CCU ports have been checked and found to be incorrect
Or not located then " - - " will appear in place of " OK "



IC9702 OK H21
IC9009 OK H61
IC3019 OK H62
IC9151 OK H53
IC9305 ---
IC3455 OK H55
IC9805 OK H56
IC3709 OK H52
IC1001 OK H51
IC3003 OK H83
IC3004 OK H64
IC3005 OK H65
IC3006 OK H65
IC2401 OK H54

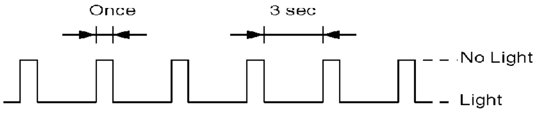
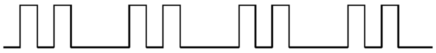
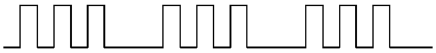
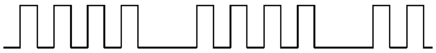
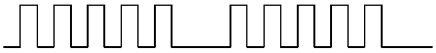
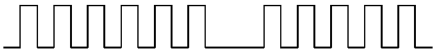
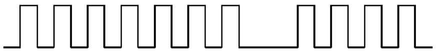
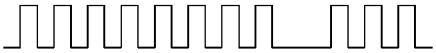
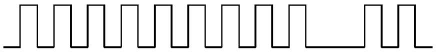
11.1.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinkes of the Power LED on the front panel of the unit.

Blinking times	Blinking timing	Contents & Check point
1		Main Micom Power
2		SCAN Driver1
3		3.3V SOS
4		5V SOS
5		Power SOS
6		FAN
7		SCAN Driver2
8		TEMP (Not used)
9		SUS Driver

3. Remarks

Above Fan function is operated during the fans are installed.

11.2. No Power

[First check point]

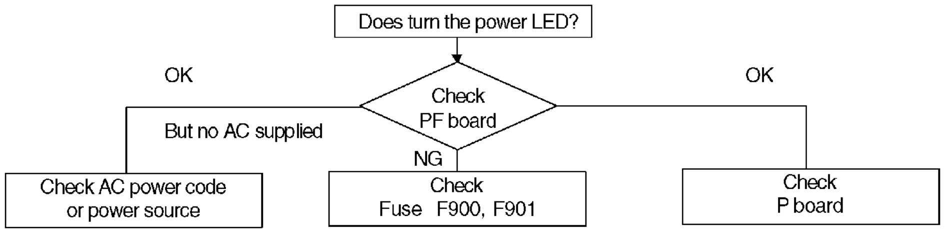
There are following 3 states of No Power indication by power LED.

1. No lit

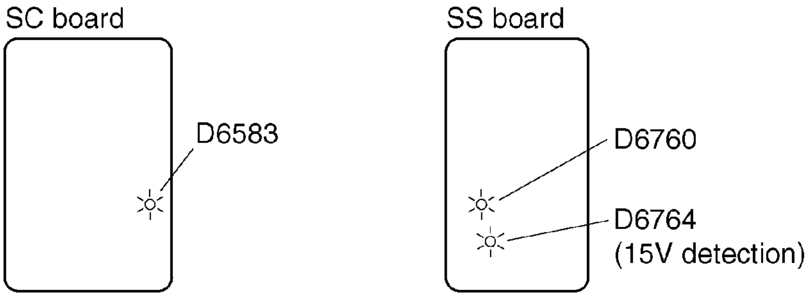
2. Green is lit then turns red blinking a few seconds later.

3. Only red is lit.

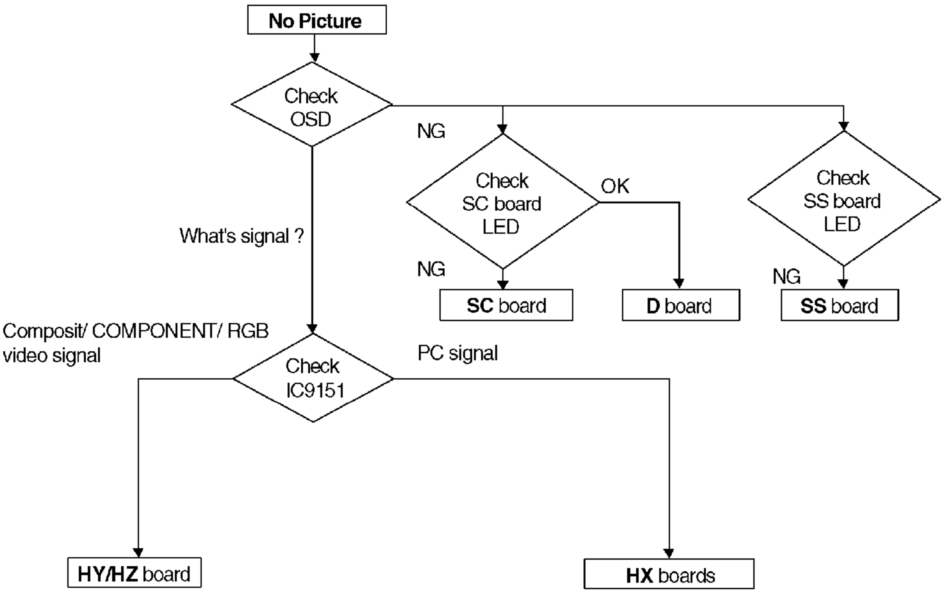
1. No lit


Does turn the power LED?
OK
Check
PF board
OK
But no AC supplied
NG
Check AC power code
or power source
Check
Fuse F900, F901
Check
P board

Drive circuits LED indicator


SC board
D6583
SS board
D6760
D6764
(15V detection)

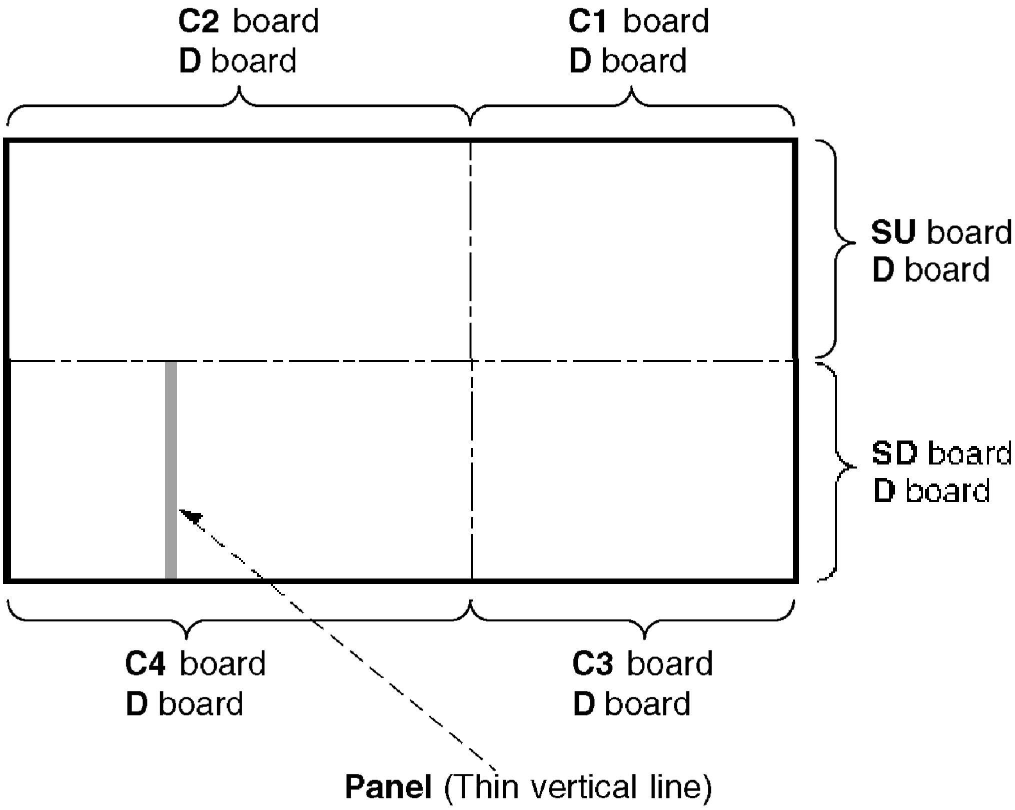
11.3. No Picture


No Picture
Check OSD
NG
Check SC board LED
OK
Check SS board LED
What's signal ?
NG
NG
SC board
D board
SS board
Composit/ COMPONENT/ RGB video signal
Check IC9151
PC signal
HY/HZ board
HX boards

11.4. Local screen failure

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.

Fig - 1


C2 board
D board
C1 board
D board
SU board
D board
SD board
D board
C4 board
D board
C3 board
D board
Panel (Thin vertical line)

<Local screen failure chart>

12. Option Setting

12.1. How to access and setting

12.2. Contents of Option Menu

This chassis series have special function and operation setting facility called Option Menu. This Option Menu is useful for special function required customers. This should be set at the installation stage. The end user could not set or change these becauseof hidden On screen menu.

Option menus	default setting	Contents
Off-timer function	Enable	Off-timer operation Enable/Disable.
On Screen display	On	Enable/Disable to display input mode indication aft power on and no signal indication.
Initial Input	Off	Sets the initial input mode when the power is turne Allow input mode selection while power is on.
Initial VOL. level	Off	Sets the initial volume level when the power is tur Allow Volume control while power is on.
Maximum VOL. Level	Off	Sets the maximum volume to desired level. Volume exceed this level.
INPUT lock	Off	Fixes the input mode to AV, Component/RGB or P not change input mode by input selection key.
Button lock	Off	Enable/Disable front operation buttons (Input and/ volume up/down)
Studio W/B	Off	Set warm mode color temperature to 3,200 Kelvin.
Remocon User Level	Off	Remote key invalidation. Off : Valid key is all key of remote. User1 : Valid key are only Stand-by (ON/OFF), Inpu Status, Surround, Sound mute On/Off, and volume adjustment. User2: Valid key is only Stand-by (ON/OFF). User3 : All keys are null and void
ID Select	0 to 100	Set ID number from 001 to 100.
Remote ID	Off	Remote ID function On/Off. (While the Remote ID on, standard remote function control the unit.)
Serial	Off	Serial ID function On/Off
Slot power	Off	Sets the slot power mode the power is turned on. Allow Optional Terminal Board insert Slots while p on.

Note :
How to set Remocon User Level and Remote ID off

1. Access service mode (CAT-mode) and press SET UP key on remote.

2. Accsess option menu.

3. Change Remocon User Level and/ or Remote ID set to Off.

13. Conductor Views

13.1. PF-Board

13.2. P-Board

13.3. HX-Board

13.4. HY-Board

13.5. J-Board

13.6. D-Board

13.7. C1-Board

13.8. C2-Board

13.9. C3-Board

13.10. C4-Board

13.11. SC-Board

13.12. SU-Board

13.13. SD-Board

13.14. SS, SS2 and SS3-Board

13.15. Z-Board

13.16. V1, S1 and H3-Board

14. Schematic Diagrams

14.1. Schematic Diagram Notes

14.2. Main Block Diagram

14.3. PF-Board Schematic Diagram

14.4. Power Block Diagram
14.5. P-Board (1 of 6) Schematic Diagram
14.6. P-Board (2 of 6) Schematic Diagram
14.7. P-Board (3 of 6) Schematic Diagram
14.8. P-Board (4 of 6) Schematic Diagram
14.9. P-Board (5 of 6) Schematic Diagram
14.10. P-Board (6 of 6) Schematic Diagram
14.11. HX-Board Block Diagram
14.12. HX-Board Schematic Diagram
14.13. HY-Board Block Diagram
14.14. HY-Board (1 of 3) Schematic Diagram
14.15. HY-Board (2 of 3) Schematic Diagram
14.16. HY-Board (3 of 3) Schematic Diagram
14.17. J-Board Block Diagram
14.18. J-Board (1 of 4) Schematic Diagram
14.19. J-Board (2 of 4) Schematic Diagram
14.20. J-Board (3 of 4) Schematic Diagram
14.21. J-Board (4 of 4) Schematic Diagram
14.22. D-Board (1 of 2) Block Diagram
14.23. D-Board (2 of 2) Block Diagram
14.24. D-Board (1 of 15) Schematic Diagram
14.25. D-Board (2 of 15) Schematic Diagram
14.26. D-Board (3 of 15) Schematic Diagram
14.27. D-Board (4 of 15) Schematic Diagram
14.28. D-Board (5 of 15) Schematic Diagram

14.29. D-Board (6 of 15) Schematic Diagram

14.30. D-Board (7 of 15) Schematic Diagram

14.31. D-Board (8 of 15) Schematic Diagram

14.32. D-Board (9 of 15) Schematic Diagram

14.33. D-Board (10 of 15) Schematic Diagram

14.34. D-Board (11 of 15) Schematic Diagram

14.35. D-Board (12 of 15) Schematic Diagram

14.36. D-Board (13 of 15) Schematic Diagram

14.37. D-Board (14 of 15) Schematic Diagram

14.38. D-Board (15 of 15) Schematic Diagram

14.39. C1-Board, C2-Board, C3-Board, C4-Board and V1-Board Block Diagram

14.40. C1-Board (1 of 2) Schematic Diagram

14.41. C1-Board (2 of 2) Schematic Diagram

14.42. C2-Board (1 of 2) Schematic Diagram

14.43. C2-Board (2 of 2) Schematic Diagram

14.44. C3-Board (1 of 2) Schematic Diagram

14.45. C3-Board (2 of 2) Schematic Diagram

14.46. C4-Board (1 of 2) Schematic Diagram

14.47. C4-Board (2 of 2) Schematic Diagram

14.48. SC-Board Block Diagram

14.49. SC-Board (1 of 2) Schematic Diagram

14.50. SC-Board (2 of 2) Schematic Diagram

14.51. SU-Board Block Diagram

14.52. SU-Board (1 of 2) Schematic Diagram

14.53. SU-Board (2 of 2) Schematic Diagram

14.54. SD-Board Block Diagram

14.55. SD-Board (1 of 2) Schematic Diagram

14.56. SD-Board (2 of 2) Schematic Diagram

14.57. S1-Board, SS-Board, SS2-Board and SS3-Board Block Diagram

14.58. SS-Board (1 of 2) Schematic Diagram

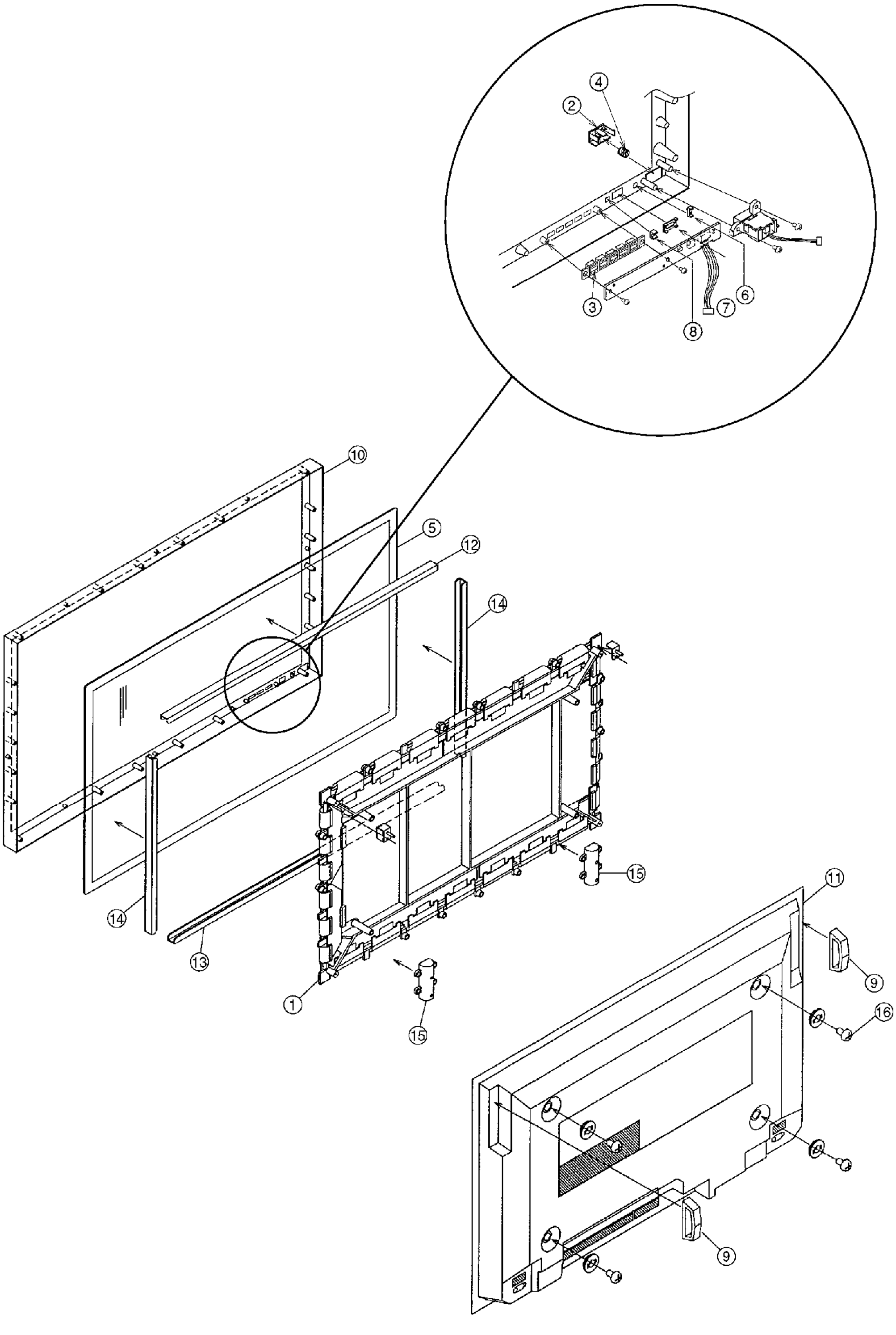
14.59. SS-Board (2 of 2) Schematic Diagram

14.60. Z-Board and H3-Board Block Diagram

14.61. Z-Board (1 of 2) Schematic Diagram

14.62. Z-Board (2 of 2) Schematic Diagram

15. Parts Location


④
②
③
⑧
⑦
⑥
⑩
⑤
⑫
⑭
⑭
⑮
⑪
⑨
⑬
①
⑯
⑮
⑨

16. Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	EUR646529	REMOTE CONTROL	1	TH-42PHD6BX/EX/UY
	EUR646530	REMOTE CONTROL	1	TH-42PHW6EX
	FBL06A12LS	FAN	2	
	J0KF00000018	FILTER	1	
	J0KG00000054	NOISE FILTER	2	
	K2AH3H000027	AC INLET	1	⚠
	K2CG3DH00025	AC CORD	1	TH-42PHD6UY ⚠
	K2CN3DH00004	AC CORD	1	TH-42PHW6EX TH-42PHD6EX ⚠
	K2CT3DH00017	AC CORD	1	TH-42PHD6BX ⚠
	K4DQD0000061	CABLE TERMINAL (1P)	3	
1	MD42H06A1J	PLASMA DISPLAY PANEL	1	⚠
	TBMA008	PANASONIC BADGE	1	TH-42PHD6BX/EX/UY
	TBMA118	PANASONIC BADGE	1	TH-42PHW6EX
2	TBXA28202A	POWER BUTTON	1	TH-42PHD6BX/EX/UY
2	TBXA28214	POWER BUTTON	1	TH-42PHW6EX
3	TBXA38901	HINDGE BUTTON	1	TH-42PHW6EX
3	TBXA38902	HINDGE BUTTON	1	TH-42PHD6BX/EX/UY
4	TESD031	SPRING	1	
	THEA068N	SCREW	4	
	THEL023Z	SCREW	14	
	THEL027N	SCREW	26	
	THEL035N	SCREW	92	
	THTD010N	SCREW	6	
	THTD011	SCREW	3	
	THTF003Y	SCREW	37	
5	TKGA5119	FRONT GALLAS	1	
6	TKKC5105	LED PANEL	1	
	TKKL5266	COVER	1	
7	TKPA60301	REMOCON RECEIVE PANEL	1	TH-42PHD6BX/EX/UY
7	TKPA60302	REMOCON RECEIVE PANEL	1	TH-42PHW6EX
8	TKPA63401	PHOTO IC RECEIVE PANEL	1	
9	TKRA29801	HANDLE	2	
	TMKX236	INSULATOR	1	
	TMM15414-2	CLAMPER	2	
	TMM17499	CLAMPER	1	
	TMM25401	CLAMPER	3	
	TMM7468-1	CLAMPER	2	
	TMME047	CLAMPER	4	
	TMME061	CLAMPER	4	
	TMME075	EADG SADOLE	2	
	TMME144	CLAMPER	1	
	TMME152	CLAMPER	1	
	TMME185	CLAMPER	2	
	TMME187	CLAMPER	2	
	TMME189	CLAMPER	2	
	TMME225	AC CORD CLAMPER	1	
	TMME228	CLAMPER	2	
	TMMJ074	CUSHION (RUBBER)	6	
	TMMJ078	CUSHION (RUBBER)	8	
	TMMX095	BRACKET	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TMWC006-1	POWER BUTTOM BRACKET	1	
	TMXX021-1	CORE HOLDER	4	
	TPCA95901A	BOTTOM CARTON	1	
	TPCB34118	CARTON BOX	1	TH-42PHD6EX ⚠
	TPCB34119	CARTON BOX	1	TH-42PHD6BX ⚠
	TPCB34122	CARTON BOX	1	TH-42PHW6EX ⚠
	TPCB40402	CARTON BOX	1	TH-42PHD6UY ⚠
	TPCB48402	CARTON BOX	1	TH-42PHD6UY ⚠
	TPD169487	JOINT	8	
	TPDA0510-1	CUSHION(UPPER RIGHT)	1	
	TPDA0511-1	CUSHION(UPPER LEFT)	1	
	TPDA0512	CUSHION(UPPER CENTER)	1	
	TPDA0513	CUSHION(BOTTOM RIGHT)	1	
	TPDA0514	CUSHION(BOTTOM LEFT)	1	
	TPDA0515-2	CUSHION(BOTTOM CENTER)	1	
	TPDA0675	CUSHION(UPPER RIGHT/LEFT)	2	TH-42PHD6UY
	TPDA0676	CUSHION(UPPER CENTER)	1	TH-42PHD6UY
	TPDA0794	CUSHION(BOTTOM RIGHT/LEFT	1	TH-42PHD6UY
	TPDF0596	CUSHION	1	
	TPDF0737	PAPER BOX	1	
	TPDF0905	PAD(UPPER)	1	TH-42PHD6UY
	TPEH170	PROTECT COVER	1	
	TPGA2150	BOTTOM CARTON	1	TH-42PHD6UY
	TQBC0570	INSTRUCTION BOOK(ENGLISH)	1	TH-42PHD6UY ⚠
	TQBC0571	INSTRUCTION BOOK(FRENCH)	1	TH-42PHD6UY ⚠
	TQBC0572	INSTRUCTION BOOK(SPANISH)	1	TH-42PHD6UY ⚠
	TQBC0573	INSTRUCTION BOOK(ENGLISH	1	TH-42PHW6EX ⚠
	TQBC0574	INSTRUCTION BOOK(GARMEN)	1	TH-42PHW6EX ⚠
	TQBC0575	INSTRUCTION BOOK(FRENCH)	1	TH-42PHW6EX ⚠
	TQBC0576	INSTRUCTION BOOK(ITALIAN)	1	TH-42PHW6EX ⚠
	TQBC0577	INSTRUCTION BOOK(SPANISH)	1	TH-42PHW6EX ⚠
	TQBC0578	INSTRUCTION BOOK(DUTCH)	1	TH-42PHW6EX ⚠
	TQBC0579	INSTRUCTION BOOK(DANISH)	1	TH-42PHW6EX ⚠
	TQBC0580	INSTRUCTION BOOK(SWEDISH)	1	TH-42PHW6EX ⚠
	TQBC0598	INSTRUCTION BOOK(ENGLISH)	1	TH-42PHD6EX ⚠
	TQBC0599	INSTRUCTION BOOK(GARMEN)	1	TH-42PHD6EX ⚠
	TQBC0600	INSTRUCTION BOOK(FRENCH)	1	TH-42PHD6EX ⚠
	TQBC0601	INSTRUCTION BOOK(ITALIAN)	1	TH-42PHD6EX ⚠
	TQBC0602	INSTRUCTION BOOK(SPANISH)	1	TH-42PHD6EX ⚠
	TQBC0603	INSTRUCTION BOOK(DUTCH)	1	TH-42PHD6EX ⚠
	TQBC0604	INSTRUCTION BOOK(DANISH)	1	TH-42PHD6EX ⚠
	TQBC0605	INSTRUCTION BOOK(SWEDISH)	1	TH-42PHD6EX ⚠
	TQBC0606	INSTRUCTION BOOK(ENGLISH)	1	TH-42PHD6BX ⚠
	TSXL139	CABLE	8	
	TSXL214	CABLE (D-C4)	1	
	TSXL216	CABLE	8	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TSXL222	CABLE (C-C)	2	
	TSXL289	CABLE (D-C3)	1	
	TSXL290	CABLE (D-C4)	1	
	TSXL308	CABLE (D-C2)	1	
10	TTEA0138	ESCUTCHEON	1	TH-42PHD6BX/EX/UY ⚠
10	TTEA0139	ESCUTCHEON	1	TH-42PHW6EX ⚠
11	TTUA0728	REAR COVER	1	TH-42PHD6UY ⚠
11	TTUA0729	REAR COVER	1	TH-42PHD6BX/EX ⚠
11	TTUA0731	REAR COVER	1	TH-42PHW6EX ⚠
12	TXFMZ020QBS	STAND POOL BRACKET	2	
	TXJSPL0QBS	SPEAKER REED(LEFT)	1	
	TXJSPR0QBS	SPEAKER REED(RIGHT)	1	
	XTB4+10A	SCREW	19	
	XTBT964	SCREW	2	
	XTS3+10J	SCREW	8	
	XTV3+6J	SCREW	2	
	XTW3+8T	SCREW	3	
	XYC3+FF8	SCREW	4	
	XYC4+FJ35FZ	SCREW	18	
	XYN3+C8	SCREW	2	
	XYN3+F10	SCREW	4	
	XYN3+F10FZ	SCREW	10	
	XYN3+F8	SCREW	2	
	XYN4+E8	SCREW	1	
	XYN5+C15	SCREW	6	
	XYN8+F20FZ	SCREW	4	
	XZBT6506	POLY BAG	1	

17. Replacement Parts List

17.1. Relpacement Parts List Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

Type	Allowance
C : Carbon	F : ±1%
F : Fuse	G : ±2%
M : Metal Oxide	J : ±5%
Metal FIlm	K : ±10%
S : Solid	M : ±20%
W : Wire Wound	

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester	F : ±1pF
Polyprop	G : ±3pF
lene	J : ±5pF
T : Tantalum	K : ±10pF
	L : ±15pF
	M : ±20pF
	P : +100%, -0%
	Z : +80%, -20%

17.2. Electrical Replacement List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
F902	K5D312BK0012	FUSE	1	⚠
F900.901	K5Y802B00001	FUSE	2	⚠
C11	K1MN80B00002	CONNECTOR	1	
C12	K1MN20B00043	20P CONNECTOR	1	
C21	K1MN80B00002	CONNECTOR	1	
C22	K1MN20B00043	20P CONNECTOR	1	
C31	K1MN80B00002	CONNECTOR	1	
C32	K1KA12A00227	12P CONNECTOR	1	
C33	K1MN20B00043	20P CONNECTOR	1	
C41	K1MN80B00002	CONNECTOR	1	
C42	K1KA04A00199	4P CONNECTOR	1	
C43	K1MN20B00043	20P CONNECTOR	1	
C44	K1KA08A00232	8P CONNECTOR	1	
C802	EEUFC1E471	E 470UF, 25V	1	
C803	EEUFC1E331	E 330UF, 25V	1	
C805	EEUFC1C102	E 1000UF, 16V	1	
C806	EEUFC1A102	E 1000UF, 10V	1	
C807	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C808,09	ECQB1H103JF	P 0.01UF, J, 50V	2	
C810	EEUFC1E561	E 560UF, 25V	1	
C811	ECQB1H103JF	P 0.01UF, J, 50V	1	
C812	ECQB1H104JF	P 0.1UF, J, 50V	1	
C813	ECQB1H473JF	P 0.047UF, J, 50V	1	
C814	EEUFC0J152	E 1500UF, 6.3V	1	
C815	ECQB1H104JF	P 0.1UF, J, 50V	1	
C816	ECQB1H682JF3	P 6800PF, J, 50V	1	
C901	ECQU2A105BN9	P 1UF, 250V	1	⚠
C902-05	ECKCNA221KB7	C 220PF, M,	4	⚠
C906	ECQU2A224BN9	P 0.22UF, 250V	1	⚠
C912	ECQU2A105MGA	P 1UF, 250V	1	⚠
C913	EETHC2W101J	C 4700PF, Z,450V	1	
C914	ECQE6223KF	P 0.022UF, K,400V	1	
C915	ECA1HHG100	E 10UF, 50V	1	
C916	ECA1VHG470	E 47UF, 35V	1	
C917	ECQV1H104JM	P 0.1UF, J, 50V	1	
C918	ECA1HHG330	E 33UF, 50V	1	
C919	ECKD3D102KBP	C 1000PF, K, 2KV	1	
C920	ECKCNA221KB7	C 220PF, M,	1	⚠
C921	ECKD3A221KBP	C 220PF, K, 1KV	1	
C922	EEUFC1E272	E 2700UF, 25V	1	
C923	EEUFC1E152	E 1500UF, 25V	1	
C924	ECA1HHG010	E 1UF, 50V	1	
C925	ECA1HHG100	E 10UF, 50V	1	
C951	EEVHB1C470	E 47UF, 16V	1	
C952	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C953-58	EEVHB1C470	E 47UF, 16V	6	
C959,60	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C961	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C962-64	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C965	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C966	EEVHB1C470	E 47UF, 16V	1	
C967,68	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C969	EEVHB1C470	E 47UF, 16V	1	
C970	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C971	EEVHB1C470	E 47UF, 16V	1	
C972	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1001,02	ECJ1XC1H150J	C 15PF, J, 50V	2	
C1003	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1004	EECS5R5H155	E 1.5UF, 5.5V	1	
C1530	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C2312	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2313	ECA1HHG470	E 47UF, 50V	1	
C2314	ECA1EHG470	E 47UF, 25V	1	
C2350,51	TCUY1C225KBM	C 2.2UF, 16V	2	F1K1C225A026
C2352,53	ECA1HHG100	E 10UF, 50V	2	
C2354,55	ECA1VM470	E 47UF, 35V	2	
C2356,57	ECJ2XB1H102K	C 1000PF, K, 50V	2	
C2358,59	ECA1HM2R2	E 2.2UF, 50V	2	
C2360,61	ECJ2XC1H102J	C 1000PF, J, 50V	2	
C2362,63	ECA1EM471	E 470UF, 25V	2	
C2364,65	ECQV1H104JM	P 0.1UF, J, 50V	2	
C2366,67	ECQV1H225JM	P 2.2UF, J, 50V	2	
C2368,69	ECQV1H104JM	P 0.1UF, J, 50V	2	
C2370	ECA1VM470	E 47UF, 35V	1	
C2417	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C2419	ECA1HHG100	E 10UF, 50V	1	
C2422	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C2423	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2426	ECJ2XB1H153K	C 0.015UF, K, 50V	1	
C2427	ECA1HHG100	E 10UF, 50V	1	
C2429	EEAGA1C101	E 100UF, 16V	1	
C2431	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2433	ECJ2XB1H393K	C 0.039UF, K, 50V	1	
C2434	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C2435	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2436	ECJ3XB1C105K	C 1UF, K, 16V	1	
C2437,38	EEAGA1C101	E 100UF, 16V	2	
C2440,41	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C2442	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2450	ECA1HHG100	E 10UF, 50V	1	
C2451	ECA1HHG4R7	E 4.7UF, 50V	1	
C2452	ECJ2XB1H562K	C 5600PF, K, 50V	1	
C2453	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2454	ECA1HHG4R7	E 4.7UF, 50V	1	
C2457	ECA1HHG4R7	E 4.7UF, 50V	1	
C2458	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C2459	ECJ3XB1C105K	C 1UF, K, 16V	1	
C2460	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2461	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C2463	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2466,67	ECJ3XB1C105K	C 1UF, K, 16V	2	
C2480	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2484	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3001	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3002	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C3003	EEVHP1A100	E 10UF, 10V	1	
C3004	EEVHB1C470	E 47UF, 16V	1	(J)
C3004	EEVHP1A100	E 10UF, 10V	1	(HY)
C3005	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3005	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3006	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3006	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3007	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3007	EEVHB1C470	E 47UF, 16V	1	(J)
C3008	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C3009	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(J)
C3009	EEVHB1C470	E 47UF, 16V	1	(HY)
C3010	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3011	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(J)
C3011	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3012	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3012	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3013	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3013	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(HY)
C3014	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3014	EEVHB1C470	E 47UF, 16V	1	(HY)
C3015	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3015	ECJ1XC1H470J	C 47PF, J, 50V	1	(HY)
C3016	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3016	ECJ1XC1H220J	C 22PF, J, 50V	1	(HY)
C3017	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3017	ECJ1XC1H680J	C 68PF, J, 50V	1	(HY)
C3018	EEVHB1C470	E 47UF, 16V	1	
C3019	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3019	F1K0J3350002	OR F1K0J3350001,ECJ3YB0J	1	(HY)
C3020	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C3021	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(HY)
C3021	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3022	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HY)
C3022-31	TCUY1C225KBM	C 2.2UF, 16V	10	F1K1C225A026 (J)
C3032	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3040,41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C3051-54	ECJ1XC1H561J	C 560PF, J, 50V	4	
C3055,56	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3101	EEVHB0G221	E 220UF, 4V	1	
C3102	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3103	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3104	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3104,05	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	(J)
C3105	EEVHB0G221	E 220UF, 4V	1	(HY)
C3106	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3106	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3107	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3107	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3108	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3108	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3109	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3109	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3110	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3110	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3111	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3111	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3112	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3112	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3113	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3113	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3114	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3114	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	(J)
C3115	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3115	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3116	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3116	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3117	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3117	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3118	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3118	EEVHB1C470	E 47UF, 16V	1	(J)
C3119-21	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C3122	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3123-26	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3127	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3128-02	ECJ1XB1C104K	C 0.1UF, Z, 16V	7	
C3134	EEVHB1C471	E 470UF, 16V	1	
C3135	ECJ1VB1C103K	C 0.01UF, K, 16V	1	(HY)
C3135	EEVHB1C471	E 470UF, 16V	1	(J)
C3136	ECJ1XC1H330J	C 33PF, J, 50V	1	(HY)
C3136	EEVHB1C471	E 470UF, 16V	1	(J)
C3137	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3138	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C3139	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3140	ECJ1XC1H101J	C 100PF, J, 50V	1	
C3141	ECJ1XB0J105K	C 1UF, K, 16V	1	(HY)
C3141	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3142	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3142,43	TCUY1C225KBM	C 2.2UF, 16V	2	F1K1C225A026 (J)
C3144	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3144	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3146	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3147	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C3148	ECJ1XB0J105K	C 1UF, K, 16V	1	
C3149	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3150	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C3151	ECJ1XC1H330J	C 33PF, J, 50V	1	
C3152	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3153	ECJ1XC1H101J	C 100PF, J, 50V	1	
C3154	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3156	ECJ1XB0J105K	C 1UF, K, 16V	1	
C3157	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C3158	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3159	EEVHB0G221	E 220UF, 4V	1	
C3160,61	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C3162-66	ECJ1VF1A105Z	C 1UF, Z, 10V	5	
C3167-78	ECJ1XB1C104K	C 0.1UF, Z, 16V	12	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3179	EEVHB0G221	E 220UF, 4V	1	
C3180-83	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3184	EEVHB0G221	E 220UF, 4V	1	
C3185	ECJ1XC1H060D	C 6PF, D, 50V	1	
C3186	ECJ1XC1H470J	C 47PF, J, 50V	1	
C3187	EEVHB0G221	E 220UF, 4V	1	
C3188	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3200,01	ECJ2VF1C105Z	C 1UF, Z, 16V	2	(J)
C3202	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HY)
C3202	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3203	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HY)
C3203	ECJ2VF1E104Z	C 0.1UF, Z, 25V	1	(J)
C3204	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HY)
C3204	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3205	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HY)
C3205	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3206	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3207	EEVHB0G221	E 220UF, 4V	1	
C3208-14	ECJ1VF1A105Z	C 1UF, Z, 10V	7	
C3216,17	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C3218	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3219	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C3251,52	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	(J)
C3253	ECJ1XB1H102K	C 1000UF, Z, 50V	1	(HY)
C3253	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3254	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3254	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3255	ECJ1XB1H102K	C 1000UF, Z, 50V	1	(HY)
C3255	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3256	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3256	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3257	ECJ1XB1H102K	C 1000UF, Z, 50V	1	(HY)
C3257	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3258	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3258	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3259	ECJ1XB1H102K	C 1000UF, Z, 50V	1	(HY)
C3259	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3260	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3260	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3261	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	(J)
C3261	EEVHB0G221	E 220UF, 4V	1	(HY)
C3262	ECJ1XB1H102K	C 1000UF, Z, 50V	1	(HY)
C3262	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3263	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3263	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3264	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3264	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3265	EEVHB0G221	E 220UF, 4V	1	(HY)
C3265	EEVHB1C470	E 47UF, 16V	1	(J)
C3266	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3266-68	EEVHB1C471	E 470UF, 16V	3	(J)
C3308	EEVHB0G221	E 220UF, 4V	1	
C3309	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3311,12	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3313	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3315	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3316	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3317	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3318-21	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3322,23	EEVHB0G221	E 220UF, 4V	2	
C3324	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C3325,26	EEVHB1C470	E 47UF, 16V	2	
C3327-30	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3401	EEVHP1C100R	E 10UF, 16V	1	
C3404	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3405	EEVHB1C470	E 47UF, 16V	1	
C3409	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3507,08	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C3510,11	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3520	EEVHB1C470	E 47UF, 16V	1	
C3521	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3523	EEVHB1C470	E 47UF, 16V	1	(HX)
C3523	EEVHB1C470	E 47UF, 16V	1	(HY)
C3524	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	(HY)
C3524	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	(HX)
C3525,26	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3527	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C3550	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3551	EEVHB1C470	E 47UF, 16V	1	
C3561,62	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C6401-06	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C6407	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6408	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6417-20	F1L2E1040002	E 1000UF, 25V	4	
C6421-26	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C6427	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6428	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6432	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C6433	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6434	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6435	EEUFC1E221	E 220UF, 25V	1	
C6436	ECA1HM221	E 220UF, 50V	1	
C6437	ECJ2XB1H104K	C 0.1UF, K, 50V	1	(SC)
C6437-40	F1L2E1040002	E 1000UF, 25V	4	(SD)
C6452	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6453	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6454	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6455	EEUFC1E221	E 220UF, 25V	1	
C6456	ECA2CM101	E 100UF, 160V	1	
C6458	F1L1E4750004	C 4.7UF, 25V	1	
C6459	EEUFC1E470	E 47UF, 25V	1	
C6461	ECA1HM101	E 100UF, 50V	1	
C6462,63	F1L1E4750004	C 4.7UF, 25V	2	
C6465	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6466,67	F1L1E4750004	C 4.7UF, 25V	2	
C6472	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6473	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6474	ECJ2XB1H103K	C 0.01UF, K, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6475	EEUFC1E221	E 220UF, 25V	1	
C6476	ECA2CM101	E 100UF, 160V	1	
C6490	F1K2J222A014	C 2200UF, K,6.3V	1	
C6492	EEUED2V100	E 10UF,	1	
C6493	ECJ3XB2J222K	C 2200PF, K,630V	1	
C6501-08	ECJ2VF1C105Z	C 1UF, Z, 16V	8	
C6509	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6510-12	F1L1E4750004	C 4.7UF, 25V	3	
C6513	ECA2CM101	E 100UF, 160V	1	
C6514	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6515,16	F1L1E4750004	C 4.7UF, 25V	2	
C6517	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6521	F1L1E4750004	C 4.7UF, 25V	1	
C6522	ECA1VM470	E 47UF, 35V	1	
C6524,25	ECJ3FC2D102J	C 1000PF, J,200V	2	
C6526	ECA2EHG470	E 47UF, 250V	1	
C6541,42	F1L1E4750004	C 4.7UF, 25V	2	
C6543-45	ECJ3FC2D102J	C 1000PF, J,200V	3	
C6546	F1L1E4750004	C 4.7UF, 25V	1	
C6550	ECA2CM101	E 100UF, 160V	1	
C6571	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6575-78	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C6580,81	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C6584	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6585	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6598	ECA2CM101	E 100UF, 160V	1	
C6600	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6601-06	ECA2DHG221	E 220UF, 200V	6	
C6607	ECWF2205JS	P 2UF, 250V	1	
C6609	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6610	EEUFC1E221	E 220UF, 25V	1	
C6611-14	F1K2J222A014	C 2200UF, K,6.3V	4	
C6619	F1K2J222A014	C 2200UF, K,6.3V	1	
C6621,22	F1L1E4750004	C 4.7UF, 25V	2	
C6623	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6625	F1K2J222A014	C 2200UF, K,6.3V	1	
C6628	F1K2J222A014	C 2200UF, K,6.3V	1	
C6631	F1K2J222A014	C 2200UF, K,6.3V	1	
C6639	F1L2E1040002	E 1000UF, 25V	1	
C6640	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6641,42	F1L1E4750004	C 4.7UF, 25V	2	
C6650,51	F1L1E4750004	C 4.7UF, 25V	2	
C6652	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6679,80	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C6681,82	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C6683,84	EEUFC1E470	E 47UF, 25V	2	
C6701	ECWF2205JS	P 2UF, 250V	1	
C6702	ECWF2205JS	P 2UF, 250V	1	
C6704	ECWF2205JS	P 2UF, 250V	1	
C6705	ECWF2205JS	P 2UF, 250V	1	
C6709	F1L2E1040002	E 1000UF, 25V	1	
C6711-14	ECA2DHG221	E 220UF, 200V	4	
C6715	ECWF2205JS	P 2UF, 250V	1	
C6717	ECJ3YB1E105K	C 1UF, K, 25V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6718	EEUFC1E221	E 220UF, 25V	1	
C6720	EEUFC1E221	E 220UF, 25V	1	
C6721	F2A1E101A089	E 100UF 25V	1	
C6722,23	ECA2CM101	E 100UF, 160V	2	
C6724	ECA2DHG221	E 220UF, 200V	1	
C6726	EEUFC1E561	E 560UF, 25V	1	
C6727	F1K2J222A014	C 2200UF, K,6.3V	1	
C6729	F1K2J222A014	C 2200UF, K,6.3V	1	
C6731	F1K2J222A014	C 2200UF, K,6.3V	1	
C6733	F1K2J222A014	C 2200UF, K,6.3V	1	
C6743,44	ECA2DHG221	E 220UF, 200V	2	
C6747,48	F1L1E4750004	C 4.7UF, 25V	2	
C6749	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6750,51	F1L1E4750004	C 4.7UF, 25V	2	
C6752	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6753	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6755	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6756,57	F1L1E4750004	C 4.7UF, 25V	2	
C6758-61	ECJ3YB1E105K	C 1UF, K, 25V	4	
C6762-64	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C6771	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6784	ECJ3XB2J222K	C 2200PF, K,630V	1	
C6804-07	F1K2J222A014	C 2200UF, K,6.3V	4	
C7101	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7102	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7103-06	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C7107	F1K2A1040004	C 0.1UF, 100V	1	
C7111	F1K2A1040004	C 0.1UF, 100V	1	
C7113	F1K2A1040004	C 0.1UF, 100V	1	
C7115	F1K2A1040004	C 0.1UF, 100V	1	
C7150-52	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7153-56	ECJ1XC1H101J	C 100PF, J, 50V	4	
C7171	F1K2A1040004	C 0.1UF, 100V	1	
C7176-78	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C7179	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7301	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7302	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7303	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7307	F1K2A1040004	C 0.1UF, 100V	1	
C7311	F1K2A1040004	C 0.1UF, 100V	1	
C7313	F1K2A1040004	C 0.1UF, 100V	1	
C7317	F1K2A1040004	C 0.1UF, 100V	1	
C7319	F1K2A1040004	C 0.1UF, 100V	1	
C7321-23	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C7350-52	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7353-56	ECJ1XC1H101J	C 100PF, J, 50V	4	
C7370-73	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C7501	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7502	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7503,04	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C7506	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7507	F1K2A1040004	C 0.1UF, 100V	1	
C7510	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7511	F1K2A1040004	C 0.1UF, 100V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7513	F1K2A1040004	C 0.1UF, 100V	1	
C7517	F1K2A1040004	C 0.1UF, 100V	1	
C7519	F1K2A1040004	C 0.1UF, 100V	1	
C7550-52	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7553-56	ECJ1XC1H101J	C 100PF, J, 50V	4	
C7572-74	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C7575	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7606	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7701	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7702	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7703-06	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C7707	F1K2A1040004	C 0.1UF, 100V	1	
C7711	F1K2A1040004	C 0.1UF, 100V	1	
C7713	F1K2A1040004	C 0.1UF, 100V	1	
C7715	F1K2A1040004	C 0.1UF, 100V	1	
C7717	F1K2A1040004	C 0.1UF, 100V	1	
C7750-52	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7772-74	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C7775-79	ECJ1XC1H101J	C 100PF, J, 50V	5	
C8001,02	EEVHB1C470	E 47UF, 16V	2	
C8003,04	ECJ1VF1H104Z	C 0.1UF, Z, 50V	2	
C8005,06	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C8007,08	ECJ1VB1H471K	C 470PF, K, 50V	2	
C8009	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8011	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8013,14	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C8015	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C8016	F1K1C4750018	OR ECJ3YB1A475K	1	
C8017	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C8018	F1K1C4750018	OR ECJ3YB1A475K	1	
C8019,20	ECJ1VB1H103K	C 0.01UF, K, 50V	2	
C8021,22	ECJ3VB1C474K	C 0.47UF, K, 16V	2	
C8023-26	ECJ1VB1H103K	C 0.01UF, K, 50V	4	
C8027	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C8029	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C8030	EEVHB1C470	E 47UF, 16V	1	
C8031	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C8032	EEVHB1C470	E 47UF, 16V	1	
C8033,34	ECJ1XC1H102J	C 1000PF, J, 50V	2	
C8035	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8036,37	ECJ1XC1H101J	C 100PF, J, 50V	2	
C8038,39	ECJ2XC1H102J	C 1000PF, J, 50V	2	
C8041	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C8043	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8045,46	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C8049,50	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C8051	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8070	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C8071	EEVHB1C470	E 47UF, 16V	1	
C8072,73	ECJ3YF1A106Z	C 10UF, Z, 10V	2	
C9001	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9002	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9003	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9004	ECJ3XB0J106M	C 10UF, M,6.3V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9005,06	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9007-10	EEVHB0G221	E 220UF, 4V	4	
C9011-14	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C9016,17	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9020	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9022	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9023	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9027	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9028	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9029	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9030,31	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9032,33	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9034,35	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9036,37	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9038,39	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9040	ECJ2VB1E473K	C 0.047UF, K, 25V	1	
C9041	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9042,43	ECJ2VB1E473K	C 0.047UF, K, 25V	2	
C9044	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9045,46	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9048,49	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9050	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9051	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
C9052	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9053	ECJ1VB1H392K	C 3900PF, K, 50V	1	
C9054-56	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9057	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9058	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9059	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9060	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9061,62	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9063-66	EEVHB0G221	E 220UF, 4V	4	
C9067-70	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C9072,73	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9076,77	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9078	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9080	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9084	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9085	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9086	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9087	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9088,89	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9090,91	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9092,93	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9094,95	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9096,97	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9098	ECJ2VB1E473K	C 0.047UF, K, 25V	1	
C9099	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9100,01	ECJ2VB1E473K	C 0.047UF, K, 25V	2	
C9102	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9103	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9105-07	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9108	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9109	ECJ1XB1C393K	C 0.039UF, K, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9110	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9111	ECJ1VB1H392K	C 3900PF, K, 50V	1	
C9112-14	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9151	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9152	EEVHB0J330	E 33UF, 6.3V	1	
C9153	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9154	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9155	EEVHB1C470	E 47UF, 16V	1	
C9156	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9157-60	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9161	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9162	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9163-70	ECJ1XF1C104Z	C 0.1UF, Z, 16V	8	
C9171	EEVHB0G221	E 220UF, 4V	1	
C9172-74	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9175	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9176-82	ECJ1XF1C104Z	C 0.1UF, Z, 16V	7	
C9187	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9191	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9192	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9195	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9196	ECJ3XB1C105K	C 1UF, K, 16V	1	
C9197	ECJ2VB1E563K	C 0.056UF, K, 25V	1	
C9198	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C9199,00	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9301	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9302	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9303	EEVHB1C470	E 47UF, 16V	1	
C9304	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9305	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9307	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9308	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9309	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9310	ECJ1XC1H330J	C 33PF, J, 50V	1	
C9311	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9312,13	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9314,15	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C9316,17	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9318	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9319	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9321	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9323	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9324	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9325	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9327	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9328-30	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9331	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9332-35	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9338-46	ECJ1XF1C104Z	C 0.1UF, Z, 16V	9	
C9347	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9449	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9450	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9453	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9454,55	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9458	ECJ1XC1H331J	C 330PF, J, 50V	1	
C9460,61	ECJ1XC1H100D	C 10PF, D, 50V	2	
C9464	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9465	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9466	EEVHB0G221	E 220UF, 4V	1	
C9467	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9469	EEVHB0G221	E 220UF, 4V	1	
C9470	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9471	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9472	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9474	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9475-77	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9478	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9479-82	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9485-93	ECJ1XF1C104Z	C 0.1UF, Z, 16V	9	
C9494,95	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C9496,97	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9498	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9596-99	ECJ1VF1H103Z	C 0.01UF, Z, 50V	4	
C9601-09	ECJ1XF1C104Z	C 0.1UF, Z, 16V	9	
C9611	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9612	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9613	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9615-25	ECJ1XF1C104Z	C 0.1UF, Z, 16V	11	
C9629-38	ECJ1XF1C104Z	C 0.1UF, Z, 16V	10	
C9640,41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9700,01	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9702	EEVHB1C470	E 47UF, 16V	1	
C9703	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9705	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9706,07	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9708-10	EEVHB1C470	E 47UF, 16V	3	
C9712-17	ECJ1XC1H101J	C 100PF, J, 50V	6	
C9718	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9719	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9720	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9722,23	ECJ1XC1H100D	C 10PF, D, 50V	2	
C9724	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9725	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9726	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9727,28	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9729	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9730-33	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9737	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9740,41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9742	EEVHB1C470	E 47UF, 16V	1	
C9743	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9748,49	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9750	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9751,52	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C9753,54	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9755,56	ECJ1XF1H102Z	C 1000PF, Z, 50V	2	
C9759	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9760	ECJ1VB1C563K	C 0.056UF, K, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9761,62	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9765	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9766	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9767,68	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C9769	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9774,75	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9951-53	EEVHB1C470	E 47UF, 16V	3	
C9954,55	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9956	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9957	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9958,59	F2H1E221A007	E 2.2UF, 25V	2	
C9960	ECJ3VB1C104K	C 0.10UF, K, 16V	1	
C9961	EEFUD0G121ER	120UF	1	
C9964,65	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9966	EEVHB0G221	E 220UF, 4V	1	
C9967	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9968	EEVHB1C470	E 47UF, 16V	1	
C9969	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9970	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C9971	ECJ2XC1H222J	C 2200PF, J, 50V	1	
CA1-A8	K1MN80B00004	80P CONNECTOR	8	
CB1-B8	K1MN80B00004	80P CONNECTOR	8	
D3	K1KA40A00140	40P CONNECTOR	1	
D4	K1KA12A00227	12P CONNECTOR	1	
D5	K1KA31A00003	31P CONNECTOR	1	
D6	K1KA21A00007	21P CONNECTOR	1	
D10	K1KA12A00254	12P CONNECTOR	1	
D12	K1KA07A00189	7P CONNECTOR	1	
D20	K1KA20A00180	20P CONNECTOR	1	
D25	K1KA08A00293	8P CONNECTOR	1	
D27	K1KA09A00077	9P CONNECTOR	1	
D31-34	K1MN80B00002	CONNECTOR	4	
D802,03	M1FS4	DIODE	2	
D804	B0JCPD000010	DIODE	1	
D806,07	B0BC01000028	DIODE	2	
D901	ERZV10V621P2	VARISTOR	1	⚠
D902	D4SB80	DIODE	1	B0EBNT000002 ⚠
D903	EG01C	DIODE	1	B0HAGV000004
D904	M1FL20U4063	DIODE	1	B0HCMM000009
D906	TMPG10G3	DIODE	1	B0BA01000046
D907	PC123FY2	PHOTO COUPLER	1	B3P(J)0000012 ⚠
D920	B0HFRJ000012	DIODE	1	
D921	B0BA02000024	DIODE	1	
D922	MA152K	DIODE	1	MA3X152K
D923	LNJ201LPQJA	LED	1	
D1001	MA111	DIODE	1	MA2J111
D1550	LNJ107W5PRW	LED	1	
D1551-53	MA8056M	ZENER DIODE	3	MAZ80560M
D2301,02	M1FS4	DIODE	2	
D2308	MA152	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D2316,17	M1FS4	DIODE	2	
D3001	MA111	DIODE	1	MA2J111
D3001	MA2J72900L	DIODE	1	
D3002	MA3100L	ZENER DIODE	1	
D3003,04	MA111	DIODE	2	MA2J111
D3021	MA111	DIODE	1	MA2J111
D3024	MA111	DIODE	1	MA2J111
D3351,52	MA153	DIODE	2	MA3X153
D3501-04	MA3056M	ZENER DIODE	4	MAZ30560M
D3507-10	MA8160H	ZENER DIODE	4	MAZ81600H
D6401,02	MA8056H	ZENER DIODE	2	MAZ80560H
D6403,04	D1FL40F4063	DIODE	2	B0ECHP000001
D6411,12	MA8056H	ZENER DIODE	2	MAZ80560H
D6413,14	D1FL40F4063	DIODE	2	B0ECHP000001
D6433	MA111	DIODE	1	MA2J111
D6435	MA111	DIODE	1	MA2J111
D6436	B0JCKG000001	DIODE	1	
D6453	MA111	DIODE	1	MA2J111
D6454	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6455	MA111	DIODE	1	MA2J111
D6456	D1FL40F4063	DIODE	1	B0ECHP000001
D6458	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6459	MA111	DIODE	1	MA2J111
D6460,61	B0HCKS000001	DIODE	2	
D6465,66	MA8330M	ZENER DIODE	2	MAZ83300M
D6467	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6468	MA111	DIODE	1	MA2J111
D6469	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6470	MA111	DIODE	1	MA2J111
D6473	MA111	DIODE	1	MA2J111
D6474	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6475	MA111	DIODE	1	MA2J111
D6476	D1FL40F4063	DIODE	1	B0ECHP000001
D6478	B0HCKS000001	DIODE	1	
D6479	MA111	DIODE	1	MA2J111
D6480	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6481,82	MA8330M	ZENER DIODE	2	MAZ83300M
D6483	M1FS4	DIODE	1	
D6485-90	MA8056H	ZENER DIODE	6	MAZ80560H
D6491,92	D1FL40F4063	DIODE	2	B0ECHP000001
D6493,94	MA8056H	ZENER DIODE	2	MAZ80560H
D6495	B0HCKS000001	DIODE	1	
D6499	M1FS4	DIODE	1	
D6501-08	K7GBZEE00006	DIODE	8	
D6509	MA111	DIODE	1	MA2J111
D6510	M1FS4	DIODE	1	
D6511	M1FL20U4063	DIODE	1	B0HCMM000009
D6512-14	MA111	DIODE	3	MA2J111
D6515	MA8240M	ZENER DIODE	1	MAZ82400M
D6517,18	M1FS4	DIODE	2	
D6520	MA111	DIODE	1	MA2J111
D6521	D1FL40F4063	DIODE	1	B0ECHP000001
D6522	MA111	DIODE	1	MA2J111
D6523	D1FL40F4063	DIODE	1	B0ECHP000001

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6524	MA8051L	ZENER DIODE	1	MAZ80510L
D6525	MA111	DIODE	1	MA2J111
D6526	M1FL20U4063	DIODE	1	B0HCMM000009
D6531,32	MA8051L	ZENER DIODE	2	MAZ80510L
D6541	B0HCKS000001	DIODE	1	
D6542	MA111	DIODE	1	MA2J111
D6543	MA8051L	ZENER DIODE	1	MAZ80510L
D6544	MA111	DIODE	1	MA2J111
D6545	MA8051L	ZENER DIODE	1	MAZ80510L
D6546-48	MA8330M	ZENER DIODE	3	MAZ83300M
D6549,50	MA111	DIODE	2	MA2J111
D6552	M1FS4	DIODE	1	
D6553	MA111	DIODE	1	MA2J111
D6570	M1FL20U4063	DIODE	1	B0HCMM000009
D6572	D1FL40F4063	DIODE	1	B0ECHP000001
D6582	MA8051L	ZENER DIODE	1	MAZ80510L
D6583	LNJ201LPQJA	LED	1	
D6584	MA111	DIODE	1	MA2J111
D6585,86	MA8330M	ZENER DIODE	2	MAZ83300M
D6600	D1FL40F4063	DIODE	1	B0ECHP000001
D6605-08	M1FS4	DIODE	4	
D6611	D1FL40F4063	DIODE	1	B0ECHP000001
D6613	D1FL40F4063	DIODE	1	B0ECHP000001
D6615-18	SF20LC30F10	DIODE	4	
D6623	SF20LC30F10	DIODE	1	
D6627	SF20LC30F10	DIODE	1	
D6649	D1FL40F4063	DIODE	1	B0ECHP000001
D6650	SF20LC30F10	DIODE	1	
D6651	D1FL40F4063	DIODE	1	B0ECHP000001
D6701	SF20LC30F10	DIODE	1	
D6710	D1FL40F4063	DIODE	1	B0ECHP000001
D6711,12	SF20LC30F10	DIODE	2	
D6713	D1FL40F4063	DIODE	1	B0ECHP000001
D6715,16	SF20LC30F10	DIODE	2	
D6728,29	SF20LC30F10	DIODE	2	
D6734-37	M1FS4	DIODE	4	
D6740	D1FL40F4063	DIODE	1	B0ECHP000001
D6749,50	M1FS4	DIODE	2	
D6751-53	D1FL40F4063	DIODE	3	B0ECHP000001
D6756	M1FS4	DIODE	1	
D6758,59	MA8330M	ZENER DIODE	2	MAZ83300M
D6760	LNJ201LPQJA	LED	1	
D6761	MA8051L	ZENER DIODE	1	MAZ80510L
D6762,63	MA111	DIODE	2	MA2J111
D6764	LNJ201LPQJA	LED	1	
D6769	D1FL40F4063	DIODE	1	B0ECHP000001
D6771,72	MA111	DIODE	2	MA2J111
D6773	D1FL40F4063	DIODE	1	B0ECHP000001
D6795	D1FL40F4063	DIODE	1	B0ECHP000001
D7501-04	MA152K	DIODE	4	MA3X152K
D8001-04	MA111	DIODE	4	MA2J111
D8010,11	MA153	DIODE	2	MA3X153
D9001	MA3036H	ZENER DIODE	1	MAZ30360H
D9003	MA3036H	ZENER DIODE	1	MAZ30360H

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D9704	MA111	DIODE	1	MA2J111
D9705-13	MA3062M	ZENER DIODE	9	MAZ30620M
D9715	MA3062M	ZENER DIODE	1	MAZ30620M
D9716	MA111	DIODE	1	MA2J111
D9719,20	MA3062M	ZENER DIODE	2	MAZ30620M
D9723	MA3062M	ZENER DIODE	1	MAZ30620M
D9724	MA111	DIODE	1	MA2J111
D9727	MA152K	DIODE	1	MA3X152K
D9730	MA152K	DIODE	1	MA3X152K
D9769	MA152K	DIODE	1	MA3X152K
D9771	MA152K	DIODE	1	MA3X152K
D9952	M1FS4	DIODE	1	
D9953	MA152K	DIODE	1	MA3X152K
D9954	M1FS4	DIODE	1	
D9955	B0JCPD000010	DIODE	1	
F900-1,-2	EYF-52BC	FUSE HOLDER	2	
F901-1,-2	EYF-52BC	FUSE HOLDER	2	
F902-1,-2	EYF-52BC	FUSE HOLDER	2	
H0	K1KA08A00293	8P CONNECTOR	1	
H1,H2	K1KA80B00034	80P CONNECTOR	2	
H37	K1KA03A00171	3P CONNECTOR	1	
HX1	K1KB22A00036	20P CONNECTOR	1	
IC801	C0D(J)HG00008	IC	1	
IC802	C0D(J)HG00007	IC	1	
IC803	C0DBALH00002	IC	1	
IC901	MIP2E4DMY1TV	IC	1	
IC902	AN1431T	LINEAR IC	1	
IC951	PQ12SZ1T	IC	1	C0CBAKG00003
IC952	PQ09SZ1T	IC	1	C0CBAHG00005
IC1001	C1DB00000274	IC	1	
IC1550	B3L000000020	IC	1	
IC2301,02	LA4901	IC	2	C1BA00000278
IC2304	PQ09SZ1T	IC	1	C0CBAHG00005
IC2401	BH3865S	IC	1	C1BA00000302
IC3001	MC14052BF	IC	1	C0JBAR000021
IC3002	C0J(HY)R000002	IC	1	
IC3003	CXA1315M	LINEAR IC	1	C1AB00000440
IC3004	CXA1875AM	IC	1	C0F(HY)D000017
IC3005	C1AB00001139	IC	1	
IC3006	CXA1315M	LINEAR IC	1	C1AB00000440
IC3007	AHC2G66HDCTR	IC	1	C0JBAS000109
IC3101	C0DBEZG00004	IC	1	
IC3102	C0DBZLB00001	IC	1	
IC3103	C1AB00001826	IC	1	
IC3104	C0EBE0000066	IC	1	
IC3105	C0JBAZ001834	IC	1	
IC3108,09	AN78L05M	LINEAR IC	2	
IC3201	C1AB00001720	IC	1	(J)
IC3201 02	C3HBKZ000001	IC	1	(HY)
IC3251 02	C0ZBZ0000684	IC	1	(HY)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC3251	C1AB00001720	IC	1	(J)
IC3301	MM1065ZMR	LINEAR IC	1	C0CBA(HY)00029
IC3302	C0DBEZG00004	IC	1	
IC3303	AN80L25RMS	IC	1	
IC3305	JLC1562BFEL	IC	1	C0JBAZ000801
IC3311	C0J(HY)Z000285	IC	1	
IC3401	C0ABZA000028	IC	1	
IC3502	24LC21T-I/SN	IC	1	C3EBCC000020
IC3699	S-24C16AFJ	IC	1	C3EBGC000018
IC6401-12	C0HBC0000005	IC	12	
IC6431	AN1431M	LINEAR IC	1	
IC6434	TLP181	PHOTO COUPLER	1	B3PBA0000081
IC6451	AN1431M	LINEAR IC	1	
IC6452,53	AN78L15M	LINEAR IC	2	
IC6454,55	AN78L05M	LINEAR IC	2	
IC6471,72	AN1431M	LINEAR IC	2	
IC6491	AN1431M	LINEAR IC	1	
IC6501,02	TC74HC14AF	IC	2	C0JBAB000155
IC6511	C0ZBZ0000736	IC	1	
IC6512	AN78L05M	LINEAR IC	1	
IC6521	C0ZBZ0000736	IC	1	
IC6541,42	C0ZBZ0000736	IC	2	
IC6543	AN78L05M	LINEAR IC	1	
IC6581	AN6914S	LINEAR IC	1	
IC6601-03	C0ZBZ0000138	IC	3	
IC6604	TC74HC08AF	IC	1	C0JB(J)000084
IC6605,06	C0JBAZ000005	IC	2	
IC6701-04	C0ZBZ0000138	IC	4	
IC6705	C0ZBZ0000736	IC	1	
IC6706	C0JBAZ000005	IC	1	
IC6707	AN6914S	LINEAR IC	1	
IC6709	AN1431M	LINEAR IC	1	
IC7101	C0JBAZ001604	IC	1	
IC7105-07	C0JBAZ001604	IC	3	
IC7301	C0JBAZ001604	IC	1	
IC7305-07	C0JBAZ001604	IC	3	
IC7501	C0JBAZ001604	IC	1	
IC7505-07	C0JBAZ001604	IC	3	
IC7701	C0JBAZ001604	IC	1	
IC7705-07	C0JBAZ001604	IC	3	
IC8001,02	MC14052BF	IC	2	C0JBAR000021
IC8003,04	M52346SP	IC	2	C1(J)00000395
IC8005,06	TC74HC14AF	IC	2	C0JBAB000155
IC8007,08	TC4W53FEL	IC	2	C0JBAR000111
IC8009	AHC2G66HDCTR	IC	1	C0JBAS000109
IC8015	C0ZBZ0000205	IC	1	
IC8016	C0JBAZ001934	IC	1	
IC9001	C0CBCBD00008	IC	1	
IC9002	C0ZBZ0000551	IC	1	
IC9003	C0JBAB000550	IC	1	
IC9004	AHC2G66HDCTR	IC	1	C0JBAS000109
IC9005	C0JBAZ001992	IC	1	
IC9006,07	C0CBCBD00008	IC	2	
IC9008	C0JBAZ001992	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC9009	C0FBAD000069	IC	1	
IC9010	C0CBCBD00008	IC	1	
IC9011	C0ZBZ0000551	IC	1	
IC9012	C0JBAB000550	IC	1	
IC9013	AHC2G66HDCTR	IC	1	C0JBAS000109
IC9014	C0JBAZ000855	IC	1	
IC9015	C0JBAZ001992	IC	1	
IC9016,17	C0CBCBD00008	IC	2	
IC9018	C0JBAZ001992	IC	1	
IC9019	C0FBAD000069	IC	1	
IC9023	C0JBAZ000855	IC	1	
IC9151	MN845041-A	IC	1	
IC9152	C0CBCBD00008	IC	1	
IC9153	C0DBEZG00004	IC	1	
IC9154	C0JBAZ001604	IC	1	
IC9155	C3ABPJ000017	IC	1	
IC9157	TLC2933IPWL	IC	1	C0ABFA000012
IC9301	C1ZBZ0002358	IC	1	
IC9302	C0CBCBD00008	IC	1	
IC9303	C1ZBZ0002357	IC	1	
IC9304	C3ABPJ000043	IC	1	
IC9305	MN84510-A	IC	1	
IC9452	C0ZBZ0000423	IC	1	
IC9453	C0DBEZG00004	IC	1	
IC9454	C3ABPJ000043	IC	1	
IC9455	MN84510-A	IC	1	
IC9456	TVRJ954-1	IC	1	
IC9459	C0JBAZ001992	IC	1	
IC9601	C0JBAZ001604	IC	1	
IC9602	C0JBAZ000855	IC	1	
IC9603,04	C0JBAZ001604	IC	2	
IC9605	C1ZBZ0002329	IC	1	
IC9606	C0EBE0000066	IC	1	
IC9608	C0ZBZ0000764	IC	1	
IC9701	MN102L230	IC	1	
IC9702	C3EBJC000038	IC	1	
IC9703	C0JBAZ001604	IC	1	
IC9704	C3HAHC000006	IC	1	
IC9705	TVRJ953-1	IC	1	
IC9706	C0JBAZ000855	IC	1	
IC9707	C0JBAE000283	IC	1	
IC9708	S-24C16AFJ	IC	1	C3EBGC000018
IC9709	TVRJ950	IC	1	
IC9710	M51957BFP	IC	1	C0E(HY)0000024
IC9711	AHC2G66HDCTR	IC	1	C0JBAS000109
IC9951	C0DBAMH00006	IC	1	
IC9952	C0DBAFH00021	IC	1	
J3	K1KA40A00140	40P CONNECTOR	1	
J5	K1KA31B00004	31P CONNECTOR	1	
J6	K1KA21B00005	21P CONNECTOR	1	
J8	K1KA20A00180	20P CONNECTOR	1	
J10	K1KA06A00183	6P CONNECTOR	1	
J11-13	K1KB80B00023	80P CONNECTOR	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
J14	K1KA22A00067	22P CONNECTOR	1	
JK3001	K1CB106B0027	CONNECTOR	1	
JK3002	K1Q(HY)2AB0005	CONNECTOR	1	
JK3004	K2HA204B0097	JACK	1	
JK3303	K2HA204B0097	JACK	1	
JK3304	K1Q(HY)5AB0005	CONNECTOR	1	
JK3509	K1FB109B0058	CONNECTOR	1	
JK3511	K1FB115B0034	CONNECTOR	1	
JK3513	K2HC103B0105	JACK	1	
JK8500	K4BC02B00013	TERMINAL	1	
JS2301	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS3301-12	ERJ3GEY0R00	M 0 OHM, 1/16W	12	
JS3501-03	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JS3506-08	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JS8092-97	J0JCC0000100	CHIP INDUCTOR	6	
L801	G1C101ZA0037	INDUCTION COIL	1	
L802	G1C121ZA0037	INDUCTION COIL	1	
L803	G1C680ZA0037	INDUCTION COIL	1	
L901,02	G0B123K00001	CHOKE COIL	2	⚠
L904	G0A100GA0013	CHOKE COIL	1	
L905	ELF17N011A	LINE FILTER	1	⚠
L906	EXCELDR35C	BEAD CHOKE	1	
L951-60	ELKE103FA	NOISE FILTER	10	
L1001	ELJPA100KB	CHIP INDUCTOR	1	
L2306	ELJPA100KB	CHIP INDUCTOR	1	
L2330,31	TAL10RP221LB	INDUCTION COIL	2	G0ZZ00001909
L3001	ELJPA100KB	CHIP INDUCTOR	1	(J)
L3001	J0HA(HY)000003	LC FILTER	1	(HY)
L3002	ELJPA100KB	CHIP INDUCTOR	1	(J)
L3002	J0HA(HY)000004	LC FILTER	1	(HY)
L3003	ELJPA100KB	CHIP INDUCTOR	1	(J)
L3003	J0HA(HY)000004	LC FILTER	1	(HY)
L3005	ELJPA100KB	CHIP INDUCTOR	1	(J)
L3005	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
L3006	ELJPA100KB	CHIP INDUCTOR	1	(J)
L3006	J0E8004B0008	LCR FILTER	1	(HY)
L3007	G1C2R2K00006	INDUCTION COIL	1	
L3050	ELJPA100KB	CHIP INDUCTOR	1	
L3051,52	ELJNA1R5JF	COIL	2	
L3101-04	ELJPA100KB	CHIP INDUCTOR	4	
L3107	J0JGC0000021	CHIP INDUCTOR COIL	1	
L3108	ELJPA100KB	CHIP INDUCTOR	1	
L3201	ELJPA100KB	CHIP INDUCTOR	1	
L3251,52	ELJPA2R2MF	CHIP INDUCTOR	2	
L3303	ELJPA100KB	CHIP INDUCTOR	1	
L3305-08	ELKE103FA	NOISE FILTER	4	
L3507-09	J0HA(HY)000004	LC FILTER	3	
L3510,11	J0HA(HY)000003	EMI FILTER	2	
L3512	JJ0HA(HY)00000	EMI FILTER	1	
L3513-17	J0HA(HY)000003	EMI FILTER	5	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L3525	J0HA(HY)000003	LC FILTER	1	
L3526	ELJPA100KB	CHIP INDUCTOR	1	(HX)
L3526	J0HA(HY)000003	LC FILTER	1	(HY)
L3527-29	J0HA(HY)000004	LC FILTER	3	
L3530,31	J0HA(HY)000003	LC FILTER	2	
L3532,33	ELJPA100KB	CHIP INDUCTOR	2	
L3555	ELJPA100KB	CHIP INDUCTOR	1	
L6431	J0JJC0000021	CHIP INDUCTOR	1	
L6451	J0JJC0000021	CHIP INDUCTOR	1	
L6471	J0JJC0000021	CHIP INDUCTOR	1	
L6472	G0ZZ00002183	PEAKING COIL	1	
L6607	J0JJC0000021	CHIP INDUCTOR	1	
L6609	G0ZZ00002183	PEAKING COIL	1	
L6611,12	G0A1R0L00001	CHOKE COIL	2	
L6614,15	G0A1R0L00001	CHOKE COIL	2	
L6618-37	G0ZZ00002183	PEAKING COIL	20	
L6644,45	G0ZZ00002183	PEAKING COIL	2	
L6650,51	G0ZZ00002183	PEAKING COIL	2	
L6661,62	J0JJC0000011	CHIP INDUCTOR	2	
L6701,02	G0A1R0L00001	CHOKE COIL	2	
L6704,05	G0A1R0L00001	CHOKE COIL	2	
L6713	G0ZZ00002183	PEAKING COIL	1	
L6714	G0C101K00023	PEAKING COIL	1	
L6715-37	G0ZZ00002183	PEAKING COIL	23	
L6752-55	G0ZZ00002183	PEAKING COIL	4	
L6758,59	J0JJC0000021	CHIP INDUCTOR	2	
L6761,62	J0JJC0000011	CHIP INDUCTOR	2	
L7107	ELKE103FA	NOISE FILTER	1	
L7307,08	ELKE103FA	NOISE FILTER	2	
L7507,08	ELKE103FA	NOISE FILTER	2	
L7707	ELKE103FA	NOISE FILTER	1	
L8001-07	ELJPA100KB	CHIP INDUCTOR	7	
L8501,02	G0A2R5H00003	CHOKE COIL	2	
L9001-03	ELKE103FA	NOISE FILTER	3	
L9008-10	ELKE103FA	NOISE FILTER	3	
L9309	ELJFA1R0KF	CHIP COIL	1	
L9452	ELJFA1R0KF	CHIP COIL	1	
L9459	ELKE103FA	NOISE FILTER	1	
L9701	ELKE103FA	NOISE FILTER	1	
L9951-54	ELKE103FA	NOISE FILTER	4	
L9955	G1C470M00012	INDUCTOR COIL	1	
L9956	G1C1R5Z00002	INDUCTOR COIL	1	
PF1	K1KA03A00181	3P CONNECTOR	1	
PF9	K1KA03A00181	3P CONNECTOR	1	
PF10	K1KA06A00220	6P CONNECTOR	1	
Q903	2SD1328	TRANSISTOR	1	2SD132806
Q1540	2SD601A	TRANSISTOR	1	2SD0601A
Q2301-03	2SD601A	TRANSISTOR	3	2SD0601A
Q2305,06	2SD601A	TRANSISTOR	2	2SD0601A
Q2330,31	2SD1266A	TRANSISTOR	2	2SD1266AJ
Q2333,34	2SD601A	TRANSISTOR	2	2SD0601A
Q2370	2SB709A	TRANSISTOR	1	2SB0709A

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q2406	2SD601A	TRANSISTOR	1	2SD0601A
Q2408	2SD601A	TRANSISTOR	1	2SD0601A
Q2410	2SD601A	TRANSISTOR	1	2SD0601A
Q3001	2SB709A	TRANSISTOR	1	2SB0709A
Q3002-05	2SD601A	TRANSISTOR	4	2SD0601A
Q3007	2SB709A	TRANSISTOR	1	2SB0709A
Q3023	2SD601A	TRANSISTOR	1	2SD0601A
Q3051,52	2SD601A	TRANSISTOR	2	2SD0601A
Q3101	2SB709A	TRANSISTOR	1	2SB0709A (HY)
Q3101	2SD601A	TRANSISTOR	1	2SD0601A (J)
Q3102	2SD1030	TRANSISTOR	1	(HY)
Q3102	2SD601A	TRANSISTOR	1	2SD0601A (J)
Q3103	2SD1030	TRANSISTOR	1	(HY)
Q3103	2SD601A	TRANSISTOR	1	2SD0601A (J)
Q3104	2SD1030	TRANSISTOR	1	(HY)
Q3104-06	2SD601A	TRANSISTOR	3	2SD0601A (J)
Q3401	2SD601A	TRANSISTOR	1	2SD0601A
Q3403	2SD601A	TRANSISTOR	1	2SD0601A
Q3501	2SD601A	TRANSISTOR	1	2SD0601A
Q3502	2SB709A	TRANSISTOR	1	2SB0709A
Q3503-05	2SD601A	TRANSISTOR	3	2SD0601A
Q3506	2SB709A	TRANSISTOR	1	2SB0709A
Q3531,32	2SD601A	TRANSISTOR	2	2SD0601A
Q6431	B1(HY)CJ000003	TRANSISTOR	1	
Q6432	2SB709A	TRANSISTOR	1	2SB0709A
Q6435	2SD601A	TRANSISTOR	1	2SD0601A
Q6451	B1(HY)CJ000003	TRANSISTOR	1	
Q6452	2SB709A	TRANSISTOR	1	2SB0709A
Q6454	2SD814A	TRANSISTOR	1	
Q6455	2SD601A	TRANSISTOR	1	2SD0601A
Q6471	B1(HY)CJ000003	TRANSISTOR	1	
Q6472	2SB709A	TRANSISTOR	1	2SB0709A
Q6474	2SD814A	TRANSISTOR	1	
Q6475-77	2SD601A	TRANSISTOR	3	2SD0601A
Q6491,92	2SC1473A	TRANSISTOR	2	2SC1473AE
Q6501-04	2SK620	FET	4	2SK0620
Q6511,12	B1DFGL000005	TRANSISTOR	2	
Q6520	2SD601A	TRANSISTOR	1	2SD0601A
Q6521	B1DFES000001	TRANSISTOR	1	
Q6523	2SB1073001TV	TRANSISTOR	1	
Q6524,25	2SD2185	TRANSISTOR	2	
Q6526	2SB1073001TV	TRANSISTOR	1	
Q6530-39	2SK349400L	FET	10	
Q6540-49	2SK373100L	TRANSISTOR	10	
Q6550	2SC1473A	TRANSISTOR	1	2SC1473AE
Q6551	2SD601A	TRANSISTOR	1	2SD0601A
Q6552	B1DADU000001	TRANSISTOR	1	
Q6554,55	2SK349400L	FET	2	
Q6556,57	2SK373100L	TRANSISTOR	2	
Q6561	2SB1073001TV	TRANSISTOR	1	
Q6562-64	B1DFES000001	TRANSISTOR	3	
Q6581	2SD601A	TRANSISTOR	1	2SD0601A
Q6601-08	2SK3559000SQ	TRANSISTOR	8	
Q6611	2SD2185	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q6612	2SB1073001TV	TRANSISTOR	1	
Q6613	2SD2185	TRANSISTOR	1	
Q6614	2SB1073001TV	TRANSISTOR	1	
Q6616,17	2SK620	FET	2	2SK0620
Q6621,22	2SK3637000VE	TRANSISTOR	2	
Q6624,25	2SK3637000VE	TRANSISTOR	2	
Q6627	2SD2185	TRANSISTOR	1	
Q6628	2SB1073001TV	TRANSISTOR	1	
Q6629	2SD2185	TRANSISTOR	1	
Q6630	2SB1073001TV	TRANSISTOR	1	
Q6701	2SD2185	TRANSISTOR	1	
Q6702	2SB1073001TV	TRANSISTOR	1	
Q6711-18	2SK3559000SQ	TRANSISTOR	8	
Q6721-24	2SK3637000VE	TRANSISTOR	4	
Q6725	2SK620	FET	1	2SK0620
Q6727,28	2SK3192000LB	FET	2	
Q6729,30	2SK326800L	FET	2	
Q6731	2SD1263A	TRANSISTOR	1	
Q6732	2SD2185	TRANSISTOR	1	
Q6733	2SB1073001TV	TRANSISTOR	1	
Q6734	2SD2185	TRANSISTOR	1	
Q6735	2SB1073001TV	TRANSISTOR	1	
Q6738,39	2SC1473A	TRANSISTOR	2	2SC1473AE
Q6741	2SD601A	TRANSISTOR	1	2SD0601A
Q6744	2SD2185	TRANSISTOR	1	
Q6745	2SB1073001TV	TRANSISTOR	1	
Q7561,62	2SB709A	TRANSISTOR	2	2SB0709A
Q8001,02	2SD601A	TRANSISTOR	2	2SD0601A
Q8010	2SD601A	TRANSISTOR	1	2SD0601A
Q8011	2SB709A	TRANSISTOR	1	2SB0709A
Q8012	2SD601A	TRANSISTOR	1	2SD0601A
Q8013	2SB709A	TRANSISTOR	1	2SB0709A
Q9001,02	2SD601A	TRANSISTOR	2	2SD0601A
Q9301	2SD601A	TRANSISTOR	1	2SD0601A
Q9400	2SD601A	TRANSISTOR	1	2SD0601A
Q9591-94	2SD601A	TRANSISTOR	4	2SD0601A
Q9596-99	2SD601A	TRANSISTOR	4	2SD0601A
Q9601,02	2SD601A	TRANSISTOR	2	2SD0601A
Q9701	2SD601A	TRANSISTOR	1	2SD0601A
Q9702	2SB1440	TRANSISTOR	1	2SB14400H
Q9703,04	2SK620	FET	2	2SK0620
Q9706	2SK620	FET	1	2SK0620
Q9707	2SB709A	TRANSISTOR	1	2SB0709A
Q9708,09	2SD601A	TRANSISTOR	2	2SD0601A
Q9710	2SB709A	TRANSISTOR	1	2SB0709A
Q9714-16	2SD601A	TRANSISTOR	3	2SD0601A
Q9719	2SK620	FET	1	2SK0620
R803	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R805	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R806,07	ERJ6ENF15R0	M 15 OHM, 1/10W	2	
R808	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R809	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R810	ERJ6ENF5100	M 510 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R901,02	ERC12ZGK105	S 1MOHM, K,1/2W	2	⚠
R903	ERF7TK3R3	W 3.3 OHM, K, 7W	1	
R904	ERG2FJS683D	M 68KOHM, J, 2W	1	
R905	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R906	ERDS1FJ3R3	C 3.3 OHM, J,1/2W	1	
R907	ERJ6GEYJ120	M 12 OHM,J,1/10W	1	
R920	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R921	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R922	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R923	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R924	ERJ6ENF2402	M 24KOHM, 1/10W	1	
R925	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R926	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R927	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R928	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R951,52	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R1001,02	ERJ6GEYJ560	M 56 OHM,J,1/10W	2	
R1003	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1500	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R1510	ERJ3GEYF222	M 2.2KOHM, 1/16W	1	
R1511	ERJ3GEYF332	M 3.3KOHM, 1/16W	1	
R1512,13	ERJ3GEYF472	M 4.7KOHM, 1/16W	2	
R1550	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R1551	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R1552	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R1553	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R1554	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R1555,56	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R2301	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2304	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2305,06	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R2309	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2310	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2319,20	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R2321	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2324,25	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R2331	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2332	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2333	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2341	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2343	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2346	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2347	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2348	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2350	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2351-54	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R2355-60	ERDS1FJ2R2	C 2.2 OHM, J,1/2W	6	
R2365,66	ERX1FJSR56D	M0.56 OHM, J, 1W	2	
R2367	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R2368,69	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2370	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R2371,72	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R2373	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2408	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2410	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2431	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2434	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2438	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2439	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R2440	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2441	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2445	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2448	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2450	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R2452	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2453	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2456	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2457	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R2460	ERJ6ENF1802	M 18KOHM, 1/10W	1	
R2461,62	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R2463	ERJ6ENF1502	M 15KOHM, 1/10W	1	
R2464	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2466	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2467	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R2468	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2469	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2470	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2471	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2472	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2473	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2476,77	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R2480	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2481,82	ERJ6GEYJ153	M 15KOHM,J,1/10W	2	
R2483	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2484	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R2485	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3001	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3001	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HY)
R3002	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(J)
R3002	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HY)
R3003	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3003	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	(J)
R3004	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3005	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HY)
R3005	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	(J)
R3006	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3006	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	(J)
R3007	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	(HY)
R3007	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3008	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3008	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3009	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3010	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (J)
R3010	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(HY)
R3011	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3011	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(J)
R3012	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	ss
R3012	ERJ3GEYJ752	M 7.5KOHM,J,1/16W	1	(HY)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3013	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(J)
R3013	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	(HY)
R3014	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(J)
R3014	ERJ3GEYJ752	M 7.5KOHM,J,1/16W	1	(HY)
R3015	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	(HY)
R3015-22	J0JCC0000100	CHIP INDUCTOR	8	(J)
R3025	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3026	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3026	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	(HY)
R3027	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3027	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(HY)
R3028,29	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3030	J0JCC0000100	CHIP INDUCTOR	1	
R3031	ERJ3EKF1800	M 180 OHM, 1/16W	1	(HY)
R3031	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3032	ERJ3EKF6200	M 620 OHM, 1/16W	1	(HY)
R3032	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3033	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3033	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3034	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3035	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HY)
R3035,36	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	(J)
R3036	ERJ6ENF1800	M 180 OHM, 1/10W	1	(HY)
R3037	J0JCC0000100	CHIP INDUCTOR	1	
R3038	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	(HY)
R3038	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3039	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3040	ERJ3EKF3300	M 330 OHM, 1/16W	1	(HY)
R3040,41	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	(J)
R3042	ERJ3EKF6801	M 6.8KOHM, 1/16W	1	(HY)
R3042,43	J0JCC0000100	CHIP INDUCTOR	2	(J)
R3044	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3045	ERJ3EKF2200	M 220 OHM, 1/16W	1	(HY)
R3045	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3046	ERJ3EKF1000	M 100 OHM, 1/16W	1	(HY)
R3046	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3047	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HY)
R3047	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3048	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3048	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)
R3049	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HY)
R3049	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)
R3050	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3050	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HY)
R3051	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HY)
R3051	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)
R3052	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HY)
R3052	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)
R3053	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(HY)
R3053	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3054	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HY)
R3054	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3055	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(HY)
R3055	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3056	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HY)
R3056	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)
R3057	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3057	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3058	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3058	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3059	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3060	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HY)
R3060	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3061	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	(HY)
R3061	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3062	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R3063	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3064	ERJ6GEYJ560	M 56 OHM,J,1/10W	1	
R3065	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(HY)
R3065-69	ERJ6GEYJ560	M 56 OHM,J,1/10W	5	(J)
R3070-75	ERJ6ENF75R0	M 75 OHM, 1/10W	6	
R3076-81	ERJ6GEYJ560	M 56 OHM,J,1/10W	6	
R3082,83	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R3084,85	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3086,87	J0JCC0000100	CHIP INDUCTOR	2	
R3088-93	ERJ6ENF75R0	M 75 OHM, 1/10W	6	
R3094-96	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R3097,98	J0JCC0000100	CHIP INDUCTOR	2	
R3099,00	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3101	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HY)
R3101	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3102	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3102	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3103	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HY)
R3103	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3104	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HY)
R3104	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3105	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3105	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3106	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3106	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3107	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	(HY)
R3107	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3108	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3108	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3112	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	(HY)
R3112	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3113	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	(HY)
R3113	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3114	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3114	ERJ6ENF8200	M 820 OHM, 1/10W	1	(J)
R3115,02	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R3116	J0JCC0000100	CHIP INDUCTOR	1	
R3117	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HY)
R3117	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	(J)
R3118	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3118	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	(J)
R3119,02	ERJ3GEYJ121	M 120 OHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3120	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3121	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	(HY)
R3121	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3122	ERJ3EKF8201	M 8.2KOHM, 1/16W	1	(HY)
R3122	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3123	ERJ3EKF1502	M 15KOHM, 1/16W	1	(HY)
R3123	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3124	ERJ3EKF10R0	M 10 OHM, 1/16W	1	(HY)
R3124	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3125	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3125,26	ERJ6GEY0R00	M 0 OHM, 1/10W	2	(J)
R3127	ERJ6ENF12R0	M 12 OHM, 1/10W	1	(HY)
R3127	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3128,29	ERJ3GEYJ181	M 180 OHM,J,1/16W	2	(J)
R3129	ERJ6ENF12R0	M 12 OHM, 1/10W	1	(HY)
R3130,31	ERJ3GEYJ181	M 180 OHM,J,1/16W	2	(HY)
R3131	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(J)
R3132,33	ERJ3GEYJ181	M 180 OHM,J,1/16W	2	
R3135	ERJ6ENF10R0	M 10 OHM, 1/10W	1	
R3136-39	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R3140	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HY)
R3140	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	(J)
R3141	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3141	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	(J)
R3142,43	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3144,45	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R3148,49	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3151	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R3152	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R3153	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3154,55	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R3156	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R3157	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3158	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R3159	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3160	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	(HY)
R3160	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	(J)
R3161	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	(HY)
R3161	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	(J)
R3162,63	ERJ3EKF2701	M 2.7KOHM, 1/16W	2	
R3164-67	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R3168	ERJ3EKF2000	M 200 OHM, 1/16W	1	
R3169-72	ERJ6ENF75R0	M 75 OHM, 1/10W	4	
R3173	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R3174	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3177	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3178	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3179	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3180	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3181	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3182	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3183	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3184	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3185	ERJ6GEY0R00	M 0 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3188	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R3189	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3189	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(J)
R3190	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3190	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(J)
R3191	ERJ14YJ330	M 33 OHM, J,1/4W	1	(J)
R3191	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3192-94	ERJ14YJ330	M 33 OHM, J,1/4W	3	
R3195,96	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3197,98	ERJ3GEYJ123	M 12KOHM,J,1/16W	2	
R3199-01	ERJ6ENF1800	M 180 OHM, 1/10W	3	
R3202	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3202	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3203	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3203	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3204	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3204	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3205-07	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R3210,11	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3212-15	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	4	
R3216-19	ERJ6GEYJ3R3	M 3.3KOHM,J,1/10W	4	
R3230,31	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3251	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3252	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3253	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	(HY)
R3253	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3254	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R3255	ERJ6ENF8200	M 820 OHM, 1/10W	1	
R3256	J0JCC0000100	CHIP INDUCTOR	1	
R3257	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R3259	J0JCC0000100	CHIP INDUCTOR	1	
R3260-62	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R3297,98	J0JCC0000100	CHIP INDUCTOR	2	
R3300,01	ERJ3EKF1501	M 1.5KOHM, 1/16W	2	
R3302	ERJ3GEYJ203	M 20KOHM,J,1/16W	1	
R3303,04	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3305-09	ERJ3GEYJ103	M 10KOHM,J,1/16W	5	
R3313,14	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3317,18	ERJ3GEYJ333	M 33KOHM,J,1/16W	2	
R3334	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3337,38	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3400	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3401	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R3402	ERJ3EKF1801	M 1.8KOHM, 1/16W	1	
R3403	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R3404	ERJ3EKF1801	M 1.8KOHM, 1/16W	1	
R3405	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R3406	ERJ3EKF1801	M 1.8KOHM, 1/16W	1	
R3407	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R3408	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3409	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R3410	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R3411	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3412	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3413	ERJ3EKF1800	M 180 OHM, 1/16W	1	
R3418	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3501,02	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3506-09	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	4	
R3510,11	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3514-17	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	D0GB101JA002
R3521,22	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R3525-28	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R3529	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3529	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	(HX)
R3530	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3530	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	(HX)
R3531,32	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	2	
R3535,36	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R3538,39	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R3544,45	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R3546,02	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	2	
R3547,48	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3585,86	ERJ6GEYJ560	M 56 OHM,J,1/10W	2	
R3589	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3590	ERJ6GEYJ560	M 56 OHM,J,1/10W	1	
R3591-93	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R3653	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3654	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3655	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3656	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3663,64	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R3668	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3672	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3776,77	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3778	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3790,91	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6401-06	ERJ6GEYJ221	M 220 OHM,J,1/10W	6	
R6411-14	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R6415,16	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6421-26	ERJ6GEYJ221	M 220 OHM,J,1/10W	6	
R6431	ERJ12YJ1R0	M 1 OHM, J,1/2W	1	(SC)
R6431	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	(SD)
R6432	ERJ12YJ1R0	M 1 OHM, J,1/2W	1	(SC)
R6432,33	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	(SD)
R6433	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	(SC)
R6434	ERDS1FJ221	C 220 OHM, J,1/2W	1	(SC)
R6434	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6435	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	(SD)
R6435	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	(SC)
R6436	ERJ6ENF1543	M 154KOHM, 1/10W	1	(SC)
R6436	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	(SD)
R6437	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6438	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R6439-41	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R6442	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6443	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6449,50	ERJ12YJ1R0	M 1 OHM, J,1/2W	2	
R6453	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6454	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R6455	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6456	ERJ6ENF4533	M 453KOHM, 1/10W	1	
R6457,58	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R6459	ERJ14YJ104	M 100KOHM, J,1/4W	1	
R6460	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6462	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6464	ERG2FJS273D	M 27KOHM, J, 2W	1	
R6465	ERX2FJS8R2D	M 8.2 OHM, J, 2W	1	
R6467	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R6468	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6470,71	ERJ6GEYJ333	M 33KOHM,J,1/10W	2	
R6472	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6473	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6474	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R6475	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6476	ERJ6ENF3243	M 324KOHM, 1/10W	1	
R6477	EVMEASA00B53	CONTROL 5KOHMB 0.3W	1	
R6478	ERJ6ENF6981	M6.98KOHM, 1/10W	1	
R6479	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6480	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6481	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R6482	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6483	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R6484	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6485,86	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6487	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6488	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6489	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6490	ERJ12YJ1R0	M 1 OHM, J,1/2W	1	
R6491	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6492,93	ERJ6ENF2203	M 220KOHM, 1/10W	2	
R6494,95	ERJ6ENF5231	M5.23KOHM, 1/10W	2	
R6496	ERJ12YJ1R0	M 1 OHM, J,1/2W	1	
R6497	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6498,99	ERX1FJS8R2D	M 8.2 OHM, J, 1W	2	
R6500	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R6501-09	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	9	
R6510	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6511,12	ERX3FJS2R2D	M 2.2 OHM, J, 3W	2	
R6513	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6514	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6515	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6516	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6517	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6518	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6519	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6520	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6521	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6522	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6524	ERJ6ENF1801	M 1.8KOHM, 1/10W	1	
R6525	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6526	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6527	ERJ14YJ102	M 1KOHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6528	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6529	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6530-39	ERJ6GEYJ470	M 47 OHM,J,1/10W	10	
R6540-49	ERJ6GEYJ100	M 10 OHM,J,1/10W	10	
R6550	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6551	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6552	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6553	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6554,55	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6556	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R6557	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R6558	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6559	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6560,61	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6562-64	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	3	
R6565	ERG1FJS332D	M 3.3KOHM, J, 1W	1	
R6566-68	ERJ6ENF1003	M 100KOHM, 1/10W	3	
R6569	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R6570	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R6571-78	ERJ6GEYJ471	M 470 OHM,J,1/10W	8	
R6579	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6580	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6581	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6582,83	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6584	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6585,86	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R6587	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6588	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6589	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6590,91	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6592,93	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6594	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6595,96	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R6599	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6600	ERD25V0T	M OHM, 1/10W	1	
R6601	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6603	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6604	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6605-07	ERJ6GEYJ224	M 220KOHM,J,1/10W	3	
R6608	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6609,10	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6611-18	ERJ6GEYJ100	M 10 OHM,J,1/10W	8	
R6619-22	ERJ6GEYJ470	M 47 OHM,J,1/10W	4	
R6625	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6626	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6627	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6628	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6629,30	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6631-38	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	8	
R6641,42	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6643	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6644,45	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6646,47	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R6648-50	ERJ6GEYJ102	M 1KOHM,J,1/10W	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6657-59	ERJ6GEYJ102	M 1KOHM,J,1/10W	3	
R6687,88	ERX2FJSR22D	M0.22 OHM, J, 2W	2	
R6689,90	ERJ12YJ220	M 22 OHM,J, 1/2W	2	
R6691	EXB38V471J	RESISTOR ARRAY	1	
R6692	EXB38V473J	RESISTOR ARRAY	1	
R6693	EXB38V471J	RESISTOR ARRAY	1	
R6694	EXB38V473J	RESISTOR ARRAY	1	
R6695	EXB38V471J	RESISTOR ARRAY	1	
R6696	EXB38V473J	RESISTOR ARRAY	1	
R6697	EXB38V471J	RESISTOR ARRAY	1	
R6698	EXB38V473J	RESISTOR ARRAY	1	
R6700	ERD25V0T	M OHM, 1/10W	1	
R6701-03	ERX3FJSR22D	M 2.2 OHM, J, 3W	3	
R6704	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6705,06	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R6707	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6710	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6711-18	ERJ6GEYJ100	M 10 OHM,J,1/10W	8	
R6719-22	ERJ6GEYJ470	M 47 OHM,J,1/10W	4	
R6725	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6726	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6727	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6728	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6729,30	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6731-38	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	8	
R6741,42	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6744	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6747	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6750	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6751,52	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6753	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6754	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6755,56	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6757	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6758	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6759	ERJ12YJ470	M 47 OHM, J,1/2W	1	
R6760	ERG1FJS472D	M 4.7KOHM, J, 1W	1	
R6761	ERG2FJS123D	M 12KOHM, J, 2W	1	
R6762	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6763	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6764	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6765,66	ERJ6GEYJ333	M 33KOHM,J,1/10W	2	
R6767	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6769	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6770	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R6772	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R6775	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6776	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6777,78	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6779	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6780,81	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R6782	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6783	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6784	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6785	EXB38V471J	RESISTOR ARRAY	1	
R6786	EXB38V473J	RESISTOR ARRAY	1	
R6787	EXB38V471J	RESISTOR ARRAY	1	
R6788	EXB38V473J	RESISTOR ARRAY	1	
R6789,90	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6801-08	ERJ6GEYJ680	M 68 OHM,J,1/10W	8	
R6815	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6817,18	ERX2FJSR22D	M0.22 OHM, J, 2W	2	
R6823,24	ERJ12YJ220	M 22 OHM,J, 1/2W	2	
R6830	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6850	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7105	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7106	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7107	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7108	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7109	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7111-22	ERJ14YJ220	M 22 OHM, J,1/4W	12	
R7141-44	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
R7147	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7148	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7158-65	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7174-81	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7190-97	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7199-02	ERJ14YJ220	M 22 OHM, J,1/4W	4	
R7208-11	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7212-15	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7216-19	ERJ3GEYJ121	M 120 OHM,J,1/16W	4	
R7220-23	ERJ3GEYJ181	M 180 OHM,J,1/16W	4	
R7224-27	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R7229,30	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7236	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7305	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7306	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7307	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7308	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7309	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7311-18	ERJ14YJ220	M 22 OHM, J,1/4W	8	
R7333-37	ERJ14YJ220	M 22 OHM, J,1/4W	5	
R7347	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7348	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7358-65	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7368,69	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7374-81	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7386,87	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7389	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R7390-97	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7398-00	ERJ3GEYJ220	M 22 OHM,J,1/16W	3	
R7401-04	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7406,07	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7410-13	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R7417	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7418-20	ERJ14YJ220	M 22 OHM, J,1/4W	3	
R7421-23	ERJ3GEYJ181	M 180 OHM,J,1/16W	3	
R7424-27	ERJ3GEYJ121	M 120 OHM,J,1/16W	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7428	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R7505	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7506	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7507	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7508	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7510	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7511-18	ERJ14YJ220	M 22 OHM, J,1/4W	8	
R7533-37	ERJ14YJ220	M 22 OHM, J,1/4W	5	
R7541-44	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R7547	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7548	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7558-65	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7568,69	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7574-81	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7586,87	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7589	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R7590-97	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7598-00	ERJ3GEYJ220	M 22 OHM,J,1/16W	3	
R7601-04	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7606-09	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R7612	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7614,15	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7618-20	ERJ14YJ220	M 22 OHM, J,1/4W	3	
R7621-23	ERJ3GEYJ181	M 180 OHM,J,1/16W	3	
R7624-27	ERJ3GEYJ121	M 120 OHM,J,1/16W	4	
R7628	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R7705	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7706	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7707	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7708	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7710	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7711-22	ERJ14YJ220	M 22 OHM, J,1/4W	12	
R7747	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7748	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7758-65	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7766-69	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7770-73	ERJ3GEYJ121	M 120 OHM,J,1/16W	4	
R7774-81	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7790-97	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7799	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7801	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7803	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7806-09	ERJ14YJ220	M 22 OHM, J,1/4W	4	
R7810-13	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7814-17	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
R7818-21	ERJ3GEYJ181	M 180 OHM,J,1/16W	4	
R7823-26	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R8001-16	J0JCC0000100	CHIP INDUCTOR	16	
R8017-20	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	4	
R8021-24	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	4	
R8025-28	ERJ3GEYJ331	M 330 OHM,J,1/16W	4	
R8029,30	ERJ6ENF3301	M 3.3KOHM, 1/10W	2	
R8031,32	ERJ6ENF2201	M 2.2KOHM, 1/10W	2	
R8033,34	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8035,36	ERJ6ENF3301	M 3.3KOHM, 1/10W	2	
R8037-40	ERJ6ENF4701	M 4.7KOHM, 1/10W	4	
R8041,42	ERJ3GEYJ183	M 18KOHM,J,1/16W	2	
R8043,44	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R8045,46	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R8047	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R8048-51	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	4	
R8054-59	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R8060,61	ERJ6ENF3301	M 3.3KOHM, 1/10W	2	
R8062	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R8065-70	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R8071,72	J0JCC0000100	CHIP INDUCTOR	2	
R8077-82	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	6	
R8083-85	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R8087	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8089	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8091	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8093,94	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R8095,96	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R8097-00	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R9001	EXB38V470J	RESISTOR ARRAY	1	
R9002,03	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9004	EXB38V470J	RESISTOR ARRAY	1	
R9005	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9006	EXB38V470J	RESISTOR ARRAY	1	
R9007-09	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9010	EXB38V470J	RESISTOR ARRAY	1	
R9011	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9012	EXB38V470J	RESISTOR ARRAY	1	
R9014	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9015	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9016	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9017	EXB38V470J	RESISTOR ARRAY	1	
R9018-20	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9022-24	ERJ3GEYJ750	M 75 OHM,J,1/16W	3	
R9025	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9026	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9027	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9028	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9029	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9030	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9031	EXB38V470J	RESISTOR ARRAY	1	
R9032,33	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9034	EXB38V470J	RESISTOR ARRAY	1	
R9035	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9036	EXB38V470J	RESISTOR ARRAY	1	
R9037-39	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9040	EXB38V470J	RESISTOR ARRAY	1	
R9042	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9043	EXB38V470J	RESISTOR ARRAY	1	
R9044	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9045	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9046	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9047	EXB38V470J	RESISTOR ARRAY	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9050-53	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9054-56	ERJ3GEYJ750	M 75 OHM,J,1/16W	3	
R9057	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9058	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9059	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9060	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9061	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9062	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9063	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9104-07	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9108-10	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R9111-13	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9114,15	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R9117-20	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
R9122,23	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R9130-35	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R9151-55	EXB2HVR000	RESISTOR ARRAY	5	
R9157	EXB2HVR000	RESISTOR ARRAY	1	
R9167,68	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9171,72	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9176	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9177	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9178,79	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9180	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9182	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9183	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R9184	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9187	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9190	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9191	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9199	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9202	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9203	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9204,05	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9211-15	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9216	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9218	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9219	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9220,21	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	
R9224	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R9226	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9228	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9229,30	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9231	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R9232	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9234	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9236	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9240,41	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R9244,45	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9302	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9304	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9309	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9310	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9311	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9312-14	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R9315	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9317	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9318-21	EXB38V470J	RESISTOR ARRAY	4	
R9322	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9323,24	EXB38V680J	RESISTOR ARRAY	2	
R9325	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9327	EXB38V680J	RESISTOR ARRAY	1	
R9328	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9329,30	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9331	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9332	EXB38V680J	RESISTOR ARRAY	1	
R9335	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9336	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9337	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9338	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9339	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9341,42	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R9346	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9347,48	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9349	EXB38V680J	RESISTOR ARRAY	1	
R9350	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9351	EXB38V680J	RESISTOR ARRAY	1	
R9352	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9354	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9355	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9357	EXB38V680J	RESISTOR ARRAY	1	
R9359	EXB38V680J	RESISTOR ARRAY	1	
R9362	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9363	EXB38V680J	RESISTOR ARRAY	1	
R9365	EXB38V680J	RESISTOR ARRAY	1	
R9367	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9368,69	EXB38V680J	RESISTOR ARRAY	2	
R9371	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9373-75	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9376	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9377-79	EXB2HVR000	RESISTOR ARRAY	3	
R9380	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9385	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9386	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9388	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9389,90	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9391,92	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9393-96	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R9397,98	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9399,00	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9401,02	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9403	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9405	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9408	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9411	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9413	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9414,15	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9417	ERJ6GEY0R00	M 0 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9420	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9421	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9425	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9431	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9435	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9437	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9439-41	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9443-45	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9447	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9449	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9455	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9457	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9459	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9460-62	ERJ3GEYJ100	M 10 OHM,J,1/16W	3	
R9463	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9465,66	EXB2HVR000	RESISTOR ARRAY	2	
R9467	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9468	EXB2HVR000	RESISTOR ARRAY	1	
R9469,70	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9475	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9476	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9477,78	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9479	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9480,81	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9483	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9484,85	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9486,87	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9488,89	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9490,91	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9492-95	EXB38VR000	RESISTOR ARRAY	4	
R9496	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9498	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9501	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9503	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9504	EXB38V103J	RESISTOR ARRAY	1	
R9506	EXB38V103J	RESISTOR ARRAY	1	
R9509-13	ERJ3GEYJ103	M 10KOHM,J,1/16W	5	
R9514	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9515	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9516,17	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9518-27	EXB38V680J	RESISTOR ARRAY	10	
R9528	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9529,30	EXB38V680J	RESISTOR ARRAY	2	
R9532-37	ERJ3GEYJ470	M 47 OHM,J,1/16W	6	
R9538,39	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9540	EXB38V470J	RESISTOR ARRAY	1	
R9541,42	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9543	EXB38V470J	RESISTOR ARRAY	1	
R9544,45	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R9547	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9548	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9550,51	EXB38V470J	RESISTOR ARRAY	2	
R9552	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9553	EXB38V680J	RESISTOR ARRAY	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9554	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9556-58	ERJ3GEYJ151	M 150 OHM,J,1/16W	3	
R9559	EXB38V470J	RESISTOR ARRAY	1	
R9560	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9561	EXB38V470J	RESISTOR ARRAY	1	
R9562	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9563	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9564	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9565	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9567	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9569	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9577	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9585	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9586	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9592	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9593	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9594	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9595	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9596	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9597	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9600-05	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
R9607-17	ERJ3GEY0R00	M 0 OHM, 1/16W	11	
R9618	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9620,21	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9622,23	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9624	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9625	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R9627-29	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9631-35	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9637,38	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9640,41	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9642	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9643	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9645	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9646	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9647	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9648	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9650-53	EXB38V103J	RESISTOR ARRAY	4	
R9654-56	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9658	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9659-61	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	3	
R9662	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9663-69	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	7	
R9670-79	ERJ3GEY0R00	M 0 OHM, 1/16W	10	
R9682-90	ERJ3GEY0R00	M 0 OHM, 1/16W	9	
R9692	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9693	EXB38V103J	RESISTOR ARRAY	1	
R9694-00	ERJ3GEY0R00	M 0 OHM, 1/16W	7	
R9701	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9702	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	ERJ3GEYJ680V
R9703-08	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R9709	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9710-16	ERJ3GEYJ151	M 150 OHM,J,1/16W	7	
R9717,18	ERJ3GEY0R00	M 0 OHM, 1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9719-24	ERJ3GEYJ151	M 150 OHM,J,1/16W	6	
R9725	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9727	EXB38VR000	RESISTOR ARRAY	1	
R9728	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9729-32	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	D0GB101JA002
R9733	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9734	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9735	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9736	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9737	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9738,39	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9741	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9743	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9745	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9747	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9748	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9749	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9750	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9751	EXB38V103J	RESISTOR ARRAY	1	
R9753	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9754	EXB38V272J	RESISTOR ARRAY	1	
R9755,56	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9757	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9758	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9759	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9760	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9761	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9762	EXB38V103J	RESISTOR ARRAY	1	
R9763	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9765	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9766	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9767	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9768	EXB38V470J	RESISTOR ARRAY	1	
R9769	EXB38VR000	RESISTOR ARRAY	1	
R9770	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9771	EXB38VR000	RESISTOR ARRAY	1	
R9773	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9774-76	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9777	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9779	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9781	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9782	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9783,84	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9785,86	EXB38VR000	RESISTOR ARRAY	2	
R9787	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9788	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9789	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9790	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R9791	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9794	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9795	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R9798,99	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9800	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9803,04	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9805	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9806	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9807,08	EXB38V103J	RESISTOR ARRAY	2	
R9810,11	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9814	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9816	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9817	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9818,19	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9820	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9823,24	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9825	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9826	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9827	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9828	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9829	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9830	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9831,32	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9833	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9834,35	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9836	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9837	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9838	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9839,40	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9843,44	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9846,47	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9848	EXB38V103J	RESISTOR ARRAY	1	
R9849,50	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9851	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9852,53	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9855	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9856	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9857	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9858	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9859	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9860	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9861	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9864	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9865	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9868	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9869	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9871	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9872	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9873	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9874,75	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9876	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9878-80	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9882,83	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9885	EXB38V103J	RESISTOR ARRAY	1	
R9886	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9887,88	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9889	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9890	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9891	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9893-96	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9897	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9898	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9900	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9901	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9903	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9905	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9906	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9907	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9908	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9909	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9910	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9913	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R9914	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9916	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9917	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9918	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9919	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R9920	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R9921-23	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9924	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9925	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9930	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9931	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9932	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9933	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9934	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9935,36	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9937	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9939	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9940	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9941	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9942	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9943	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9944	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9945,46	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9947	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9948,49	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9951,52	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9954-57	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9959,60	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9961	ERJ6ENF1621	M1.62KOHM, 1/10W	1	
R9962	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9963	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9964	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9965	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9966	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9969	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9970	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9971	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9972	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9975	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9976	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9979	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9996	ERJ6GEY0R00	M 0 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9998	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
RL901	K6B2ADA00007	REALY	1	⚠
RM001	PNA4601M05TV	REMOCO RECEIVER	1	
RTL	TNPA3003	CIRCUIT BOARD H3	1	⚠
RTL	TNPA2826	CIRCUIT BOARD J	1	⚠
RTL	TZTNP020QJS	CIRCUIT BOARD HX	1	⚠
RTL	TXNHY10QBS	CIRCUIT BOARD HY	1	⚠
RTL	TNPA2815	CIRCUIT BOARD Z	1	⚠
RTL	TXNPF10QBS	CIRCUIT BOARD PF	1	⚠
RTL	TNPA2889	CIRCUIT BOARD P	1	⚠
RTL	TNPA2909	CIRCUIT BOARD SU	1	⚠
RTL	TNPA2910	CIRCUIT BOARD SD	1	⚠
RTL	TNPA2899	CIRCUIT BOARD C1	1	⚠
RTL	TNPA2900	CIRCUIT BOARD C2	1	⚠
RTL	TNPA2901	CIRCUIT BOARD C3	1	⚠
RTL	TNPA2902	CIRCUIT BOARD C4	1	⚠
RTL	TZTNP01QJSU	CIRCUIT BOARD D	1	⚠
RTL	TXNSC10QJS	CIRCUIT BOARD SC	1	⚠
RTL	TXNSS10QJS	CIRCUIT BOARD SS	1	⚠
RTL	TNPA2916	CIRCUIT BOARD SS2	1	⚠
RTL	TNPA2917	CIRCUIT BOARD SS3	1	⚠
RTL	TNPA2868AB	CIRCUIT BOARD S1	1	⚠
RTL	TXNV110QJS	CIRCUIT BOARD V1	1	⚠
S061	K0F162B00002	SWITCH	1	
S1550-54	EVQPBD05R	SWITCH	5	
SC2	K1KA06A00180	6P CONNECTOR	1	
SC20	K1KA20A00180	20P CONNECTOR	1	
SC23	K1KA03A00213	3P CONNECTOR	1	
SC41-44	K1KB40B00015	40P CONNECTOR	4	
SD1-D4	K1MN96B00001	CONNECTOR	4	
SS11-18	K1MN13B00020	13P CONNECTOR	8	
SS19	K1KB07A00037	7P CONNECTOR	1	
SS20,21	K1KA07A00170	7P CONNECTOR	2	
SS22	K1KB07A00037	7P CONNECTOR	1	
SS32	K1KA12A00176	12P CONNECTOR	1	
SS34	K1KA03A00213	3P CONNECTOR	1	
SS42	K1KA04A00242	4P CONNECTOR	1	
SS51	K1KA07A00096	7P CONNECTOR	1	
SS52	K1KA10A00259	10P CONNECTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
SU1-U4	K1MN96B00001	CONNECTOR	4	
T901	ETS28AZ1E6AD	SWITCHING TRANS	1	⚠
T6431	ETS13TB139AP	SWITCHING TRANS	1	
T6451	G4D1A0000072	SWITCHING TRANS	1	
T6471	G4D1A0000072	SWITCHING TRANS	1	
V34	K1KA08B00005	8P CONNECTOR	1	
X3101	H0J202500002	CRYSTAL	1	
X9302	H0J200500016	CRYSTAL	1	
X9350	H0J327200038	CRYSTAL	1	
X9701	H0J245500013	CRYSTAL	1	
X9702	H0J921400003	CRYSTAL	1	
X9703	H0J200500016	CRYSTAL	1	
Z5	K1KA11A00048	11P CONNECTOR	1	
Z6	K1KA04A00195	4P CONNECTOR	1	
Z7	K1KA03A00172	3P CONNECTOR	1	
Z8	K1KA20A00180	20P CONNECTOR	1	
ZA001-03	K4ZZ01000121	EARTH LUG	3	
ZA3001-08	K4ZZ01000121	EARTH LUG	8	
C401	F0CAF105A021	C 1UF, 250V	1	
C402	ECJ2XC1H101J	C 100PF, J, 50V	1	
C403	ECKCNA222MEB	C 2200PF, M	1	
C404	F0CAF105A021	C 1UF, 250V	1	
C407	EEUEB2W220B	E 22UF, 450V	1	
C408	F2A1H470A123	E 47UF, 50V	1	
C409	F0CAF105A021	C 1UF, 250V	1	
C410	F2A1H470A123	E 47UF, 50V	1	
C411	F2A1H100A123	E 10UF, 50V	1	
C412	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C413	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C416	F1J1V474A001	C 0.47UF, 35V	1	
C417	F2A1H100A123	E 10UF, 50V	1	
C419	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C421,22	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C423	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C424,25	ECJ3YB1E105K	C 1UF, K, 25V	2	
C426	ECJ2XC1H471J	C 470PF, J, 50V	1	
C427	F1J1A1050002	C 1UF, Z, 50V	1	
C428	ECJ2XC1H221J	C 220PF, J, 50V	1	
C429,30	F1K2J1530002	C 0.15PF, J,630V	2	
C431	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C432	F1J1C1050011	C 1UF, Z, 50V	1	
C436	F1J1C1050011	C 1UF, Z, 50V	1	
C440	F2A1H100A123	E 10UF, 50V	1	
C443,44	F1A3A102A040	C 1000PF, J, 1KV	2	
C445	F1J1C1050011	C 1UF, Z, 50V	1	
C446	F2B2W3310006	C 330UF, 450V	1	
C448	F2B2W3310006	C 330UF, 450V	1	
C449,50	F1A3A102A040	C 1000PF, J, 1KV	2	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C451	F1A3A101A040	C 100PF, J, 1KV	1	
C455	F1A3A221A040	C 220UF, 1KV	1	
C457	ECWH8203RHV	P 0.020PF, J, 8KV	1	
C458	ECWH8683RHV	P 0.068PF, J, 8KV	1	
C459	F1K2J1530002	C 0.15PF, J,630V	1	
C460,61	F1A3A331A039	C 330UF, 1KV	2	
C462	ECJ3YB1E105K	C 1UF, K, 25V	1	
C463	ECJ2XC1H220J	C 22UF, J, 50V	1	
C464	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C465	ECKDNA471KB7	C 470PF, Z,	1	ECKCNA471KB7
C501,02	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C503,04	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C506-08	ECJ2XB1H103K	C 0.01UF, K, 50V	3	
C509	F2A1E101A097	E 100UF 25V	1	
C511	F1J1C1050011	C 1UF, Z, 50V	1	
C513,14	ECJ2XC1H471J	C 470PF, J, 50V	2	
C515	EEUFC1A102	E 1000UF, 10V	1	
C516	F1J1A1050002	C 1UF, Z, 50V	1	
C517	EEUFC1A221	E 220UF, 10V	1	
C518	F2A1E470A097	E 47UF, 25V	1	
C521	F2A1H100A123	E 10UF, 50V	1	
C522	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C523	F2A1E101A097	E 100UF 25V	1	
C524	EEUEB1H220SB	E 22UF, 50V	1	
C525	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C526	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C527	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C528	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C529	F2A1E101A097	E 100UF 25V	1	
C530	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C531,32	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C534	ECJ2XC1H681J	C 680PF, J, 50V	1	
C535	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C536	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C537	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C538	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C539	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C540	ECJ2XC1H152J	C 1500PF, J, 50V	1	
C541	F1J1C1050011	C 1UF, Z, 50V	1	
C544	F1J1C1050011	C 1UF, Z, 50V	1	
C546	F2A1E101A097	E 100UF 25V	1	
C547	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C549	F1J2E1030004	C 0.1PF, J,250V	1	
C550	F2A1E681A099	E 680UF, 25V	1	
C552	F1J1C1050011	C 1UF, Z, 50V	1	
C553,54	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C555	ECA2AHG102	E 1000UF, 100V	1	
C556	F2A1C152A126	E 1500UF, 16V	1	
C557	F2A1E681A099	E 680UF, 25V	1	
C558	F2B2D1720001	E 1700UF,@ 200V	1	
C559	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C560	ECA2AHG102	E 1000UF, 100V	1	
C561	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C562	F2B2D1720001	E 1700UF,@ 200V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C565	F2A1E4710065	E 470UF, 25V	1	
C573	F1J1C1050011	C 1UF, Z, 50V	1	
C574	EEUFC0J122	E 1200UF, 6.3V	1	
C576	F2A1E470A097	E 47UF, 25V	1	
C577	F2A2A101A023	E 100UF, 100V	1	
C578	F2A1E470A097	E 47UF, 25V	1	
C579	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C580	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C581	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C583	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C585,86	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C587	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C598	F2A1E470A097	E 47UF, 25V	1	
C599	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C600,01	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C602	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C603,04	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C605	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C606	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C607	F1J1C1050011	C 1UF, Z, 50V	1	
C608,09	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
D401	B0F(HY)R000020	DIODE	1	
D402	MA4082M	ZENER DIODE	1	MAZ40820M
D404	S1WBA80Z	DIODE	1	
D408	MA4180M	ZENER DIODE	1	MAZ41800M
D409	B0HAMM000072	DIODE	1	
D410	MA188	DIODE	1	MA2C188
D411	B0(HY)17000006	DIODE	1	
D412	MA165	DIODE	1	MA2C165
D414	MA165	DIODE	1	MA2C165
D415	B0JAME000081	DIODE	1	
D418	MA4082M	ZENER DIODE	1	MAZ40820M
D419,20	B0HBRR000001	DIODE	2	
D421	MA4150M	ZENER DIODE	1	MAZ41500M
D423-26	B0JAME000081	DIODE	4	
D431	B0JCDD000002	DIODE	1	
D433,34	MA4051NM	ZENER DIODE	2	MAZ4051NM
D503,04	MA165	DIODE	2	MA2C165
D505,06	B0JAME000081	DIODE	2	
D507	MA165	DIODE	1	MA2C165
D510	B0HAMM000072	DIODE	1	
D511	B0JAME000078	DIODE	1	
D513	MA4100M	ZENER DIODE	1	MAZ41000M
D515	MA4056M	ZENER DIODE	1	MAZ40560M
D517-20	MA165	DIODE	4	MA2C165
D521	MA188	DIODE	1	MA2C188
D528,29	MA153	DIODE	2	MA3X153
D530	MA4100M	ZENER DIODE	1	MAZ41000M
D531	B0HDRM000001	DIODE	1	
D532	MA3J142D0L	DIODE	1	
D533,34	MA752A	DIODE	2	MA3D752A
D535	MA188	DIODE	1	MA2C188
D536	MA752A	DIODE	1	MA3D752A

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D537	B0HBRP000006	DIODE	1	
D538	MA4051NM	ZENER DIODE	1	MAZ4051NM
D539	B0HBRP000006	DIODE	1	
D540,41	MA188	DIODE	2	MA2C188
D543-45	MA3180H	ZENER DIODE	3	
D546	B0JCND000005	DIODE	1	
D547	MA3150M	ZENER DIODE	1	MAZ31500M
D548	MA4075M	ZENER DIODE	1	MAZ40750M
D549	MA188	DIODE	1	MA2C188
D550	MA4068M	ZENER DIODE	1	MAZ40680M
D551	MA4075M	ZENER DIODE	1	MAZ40750M
D552	MA4051NM	ZENER DIODE	1	MAZ4051NM
D553	MA165	DIODE	1	MA2C165
D554	ERA15-01	DIODE	1	B0EAKL000006
D555	MA4075M	ZENER DIODE	1	MAZ40750M
D557	MA111	DIODE	1	MA2J111
D561	MA3075MTX	ZENER DIODE	1	MAZ30750ML
D563,64	MA111	DIODE	2	MA2J111
D565	B0JAME000081	DIODE	1	
F405	P130A	FUSE	1	
IC401	CNC1S171R	IC	1	
IC402	NJM2903V	IC	1	C0(HY)BA000032
IC403,04	CNC1S171R	IC	2	
IC406	C0DAZZZ00019	TRANSISTOR	1	
IC408	CNC1S171R	IC	1	
IC409	MIP2E2DMPSCF	IC	1	
IC501	C2ABDA000040	TRANSISTOR	1	
IC502	C0EBH0000190	TRANSISTOR	1	
IC503	C0ZBZ0000383	TRANSISTOR	1	
IC504	TA76431ASTP6	IC	1	
IC511	C0D(J)ZG00010	TRANSISTOR	1	
IC512	TA76431ASTP6	IC	1	
IC520	C0JBAZ002056	TRANSISTOR	1	
IC521	C0JBAF000367	TRANSISTOR	1	
IC522	C0JBAZ002056	TRANSISTOR	1	
IC523	C0JBAF000367	TRANSISTOR	1	
L401	EXCELDR25C	BEAD CHOKE	1	
L402	EXCELSA24	BEAD CHOKE	1	
L403	EXCELSA35	BEAD CHOKE	1	
L502	EXCELDR25C	BEAD CHOKE	1	
L503	ELELN100KA	CHIP INDUCTOR	1	
L504	G0A151ZA0038	CHOKE COIL	1	
L505-07	EXCELDR25C	BEAD CHOKE	3	
L510	EXCELDR25C	BEAD CHOKE	1	
P2	K1KA06A00180	6P CONNECTOR	1	
P5	K1KA11A00073	11P CONNECTOR	1	
P7	K1KA04A00242	4P CONNECTOR	1	
P9	K1KA02A00104	2P CONNECTOR	1	
P11	K1KA07A00096	7P CONNECTOR	1	
P12	K1KA10A00259	10P CONNECTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P23	K1KA03A00213	3P CONNECTOR	1	
P25	TJS1A8840	8P CONNECTOR	1	K1KA08A00221
P27	K1KA09A00099	9P CONNECTOR	1	
P30-33	K1KA03A00172	3P CONNECTOR	4	
PMM1	TMM7464-2	CLAMPER	1	
PMM2	TMME190	CLAMPER	1	
PMM3,M4	TMME047	CLAMPER	2	
PMM5	TMM7464-2	CLAMPER	1	
PR401	K5Y502B00007	FUSE	1	
PR502	ICP-N50T104	PROTECTOR	1	
PR509,10	K5H501Z00005	FUSE	2	
Q401	B1DHBD000002	TRANSISTOR	1	
Q403	2SD1819A	TRANSISTOR	1	2SD1819AW
Q404	2SB1386RT100	TRANSISTOR	1	
Q406	B1DELQ000002	TRANSISTOR	1	
Q407	XP0460100L	TRANSISTOR	1	
Q410	B1CEJQ000001	TRANSISTOR	1	
Q411	UN5213	TRANSISTOR	1	UNR521300L
Q412,13	B1DEER000003	TRANSISTOR	2	
Q414,15	B1DEGQ000030	TRANSISTOR	2	
Q416	XP0460100L	TRANSISTOR	1	
Q420,21	2SD1819A	TRANSISTOR	2	2SD1819AW
Q501,02	2SD1820A	TRANSISTOR	2	
Q503	UN5111	TRANSISTOR	1	UNR5111
Q504	2SK3065T100	FET	1	B1CFNG000001
Q506	XP0440100L	TRANSISTOR	1	
Q508	UN5210RTX	TRANSISTOR	1	
Q509	XP0440100L	TRANSISTOR	1	
Q510	2SB1218ARL	TRANSISTOR	1	
Q511	B1CBGD000001	TRANSISTOR	1	
Q512	B1DHBD000002	TRANSISTOR	1	
Q513	B1CBGD000001	TRANSISTOR	1	
Q514	B1MBACA00005	TRANSISTOR	1	
Q515	2SK3065T100	FET	1	B1CFNG000001
Q516	B1DHBD000002	TRANSISTOR	1	
Q517	XP0440100L	TRANSISTOR	1	
Q518	B1MBACA00005	TRANSISTOR	1	
Q519	2SK3065T100	FET	1	B1CFNG000001
Q520	B1HFCFA00015	TRANSISTOR	1	
Q521	2SD1819A	TRANSISTOR	1	2SD1819AW
Q522	UN5111	TRANSISTOR	1	UNR5111
Q524	2SD1819A	TRANSISTOR	1	2SD1819AW
Q525	XP0460100L	TRANSISTOR	1	
Q527	B1DEHL000015	TRANSISTOR	1	
Q528	2SD1819A	TRANSISTOR	1	2SD1819AW
Q530	XP4501TX	TRANSISTOR	1	XP0450100L
Q531	2SD23750P	TRANSISTOR	1	
Q532	2SD1819A	TRANSISTOR	1	2SD1819AW
Q535	2SD1819A	TRANSISTOR	1	2SD1819AW
Q537	B1CHND000003	TRANSISTOR	1	
Q540	B1DHBD000002	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q541	B1CBGD000001	TRANSISTOR	1	
Q542	XP0460100L	TRANSISTOR	1	
Q543	XP0440100L	TRANSISTOR	1	
Q544	UN5111	TRANSISTOR	1	UNR5111
Q545	2SK3065T100	FET	1	B1CFNG000001
Q546	2SD1819A	TRANSISTOR	1	2SD1819AW
Q547	2SD1119	TRANSISTOR	1	2SD11190L
Q550-52	UN5213	TRANSISTOR	3	UNR521300L
R401-03	ERJ6ENF2003	M 200KOHM, 1/10W	3	
R405-07	ERJ6ENF2003	M 200KOHM, 1/10W	3	
R409	ERJ6ENF3602	M 36KOHM, 1/10W	1	
R410	D0D5200JA032	M 22 OHM,J,1/5W	1	
R411	D1FZ100E0001	F 10 OHM	1	
R412	D0D5200JA032	M 22 OHM,J,1/5W	1	
R413	D1FZ100E0001	F 10 OHM	1	
R414	ERJ8GEYJ153	M 15KOHM, J,1/8W	1	
R415	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R417	ERJ6ENF4303	M 430KOHM, 1/10W	1	
R421	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R423	ERJ6GEYJ2R2	M 2.2 OHM,J,1/10W	1	
R424	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R425	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R426	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R427	ERJ8GEYJ4R7	M 4.7 OHM, J,1/8W	1	
R428	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R429	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R430	ERJ6ENF4303	M 430KOHM, 1/10W	1	
R431	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R432	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R433	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R434	ERJ8GEYJ2R2	M 2.2 OHM, J,1/8W	1	
R436	ERJ8GEYJ153	M 15KOHM, J,1/8W	1	
R437	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R438	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R439	ERJ14YJ120	M 12 OHM, J,1/4W	1	ERJ14YJ120U
R440	ERJ8GEYJ474	M 470KOHM, J,1/8W	1	
R441,42	ERJ6EKF6803	M 680KOHM, 1/10W	2	
R443	EVM(J)SA00B23	CONTROL 2KOHMB	1	
R444	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R448-50	D0XGR10JA007	RESISTOR ARRAY	3	
R451	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R452	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R454	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R456	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R458	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R462	ERJ6ENF4303	M 430KOHM, 1/10W	1	
R463	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R464	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R465	ERJ6ENF5603	M 560KOHM, 1/10W	1	
R466	D0C3104JA014	M 100KOHM,J,1/3W	1	
R467	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R468-70	ERJ6GEYJ474	M 470KOHM,J,1/10W	3	
R471	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R472,73	ERJ6ENF5603	M 560KOHM, 1/10W	2	
R474	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R475	ERJ6EKF6803	M 680KOHM, 1/10W	1	
R476,77	ERJ8GEYJ300	M 30 OHM, J,1/8W	2	
R478	ERJ8GEYJ681	M 680 OHM, J,1/8W	1	ERJ8GEYJ681V
R481	ERJ14YJ621	M 620 OHM, J,1/4W	1	ERJ14YJ621U
R482	ERJ8GEYJ681	M 680 OHM, J,1/8W	1	ERJ8GEYJ681V
R483	ERJ14YJ621	M 620 OHM, J,1/4W	1	ERJ14YJ621U
R484,85	ERJ8GEYJ300	M 30 OHM, J,1/8W	2	
R486	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R489	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R493	ERJ14YJ120	M 12 OHM, J,1/4W	1	ERJ14YJ120U
R494-96	ERJ6ENF5603	M 560KOHM, 1/10W	3	
R497	ERJ6ENF2402	M 24KOHM, 1/10W	1	
R498	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R499	ERJ8GEYJ4R7	M 4.7 OHM, J,1/8W	1	
R500	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R501	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R502,03	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R504	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R505	ERDS2TJ220	C 22 OHM, J,1/4W	1	
R506	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R507	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R508	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R509	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R510	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R512	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R513,14	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R515	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R516	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R517	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R518	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R519,20	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R521,22	ERJ8GEYJ100	M 10 OHM, J,1/8W	2	
R524	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R527	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R528	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R529	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R530	ERJ6ENF9531	M9.53KOHM, 1/10W	1	
R532	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R534-36	ERJ6GEYJ104	M 100KOHM,J,1/10W	3	
R537	ERJ6ENF5602	M 56KOHM, 1/10W	1	
R538-40	ERJ6GEYJ104	M 100KOHM,J,1/10W	3	
R541-44	ERJ1TRQJR47	M 0.47KHM,J, 1W	4	
R545	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R546	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R547-50	ERJ6GEYJ223	M 22KOHM,J,1/10W	4	
R551	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	
R553	ERJ6ENF7501	M 7.5KOHM, 1/10W	1	
R554	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R555,56	ERJ8GEYJ332	M 3.3KOHM, J,1/8W	2	
R557	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R558	ERJ6ENF2702	M 27KOHM, 1/10W	1	
R559	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R563	ERJ6GEYJ4R7	M 4.7 OHM,J,1/10W	1	
R564	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R565	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R566	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R567	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R569	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R570	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R571	ERJ6ENF8201	M 8.2KOHM, 1/10W	1	
R572	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R573	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R574	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R575	ERJ6GEYJ4R7	M 4.7 OHM,J,1/10W	1	
R576	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R577	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R578	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R579	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R580	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R581	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R582	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R583	ERJ6ENF7501	M 7.5KOHM, 1/10W	1	
R584	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R585	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R586	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R587	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	
R588	ERJ6ENF4420	M 442 OHM, 1/10W	1	
R589	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R590	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R592	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R593	ERJ6ENF5601	M 5.6KOHM, 1/10W	1	
R594	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R595	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R596	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R597	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R598	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R599	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R600	ERJ8ENF3900	M 390 OHM, 1/8W	1	
R601	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R602,03	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R604	ERJ6GEYJ391	M 390 OHM,J,1/10W	1	
R605,06	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	2	
R608	D3CA61020010	M1.0 KOHM,J,0.5W	1	
R609	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R610	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R611	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	
R612	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R613	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R614	ERJ6ENF5601	M 5.6KOHM, 1/10W	1	
R615	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R624	ERX1SJR22	M0.22 OHM, J, 1W	1	
R631	ERJ8GEYJ123	M 12KOHM, J,1/8W	1	
R632	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R634	ERJ6ENF4700	M 470 OHM, 1/10W	1	
R635	ERJ6ENF1071	M1.07KOHM, 1/10W	1	
R636-39	ERJ8ENF3902	M 39K OHM, 1/8W	4	

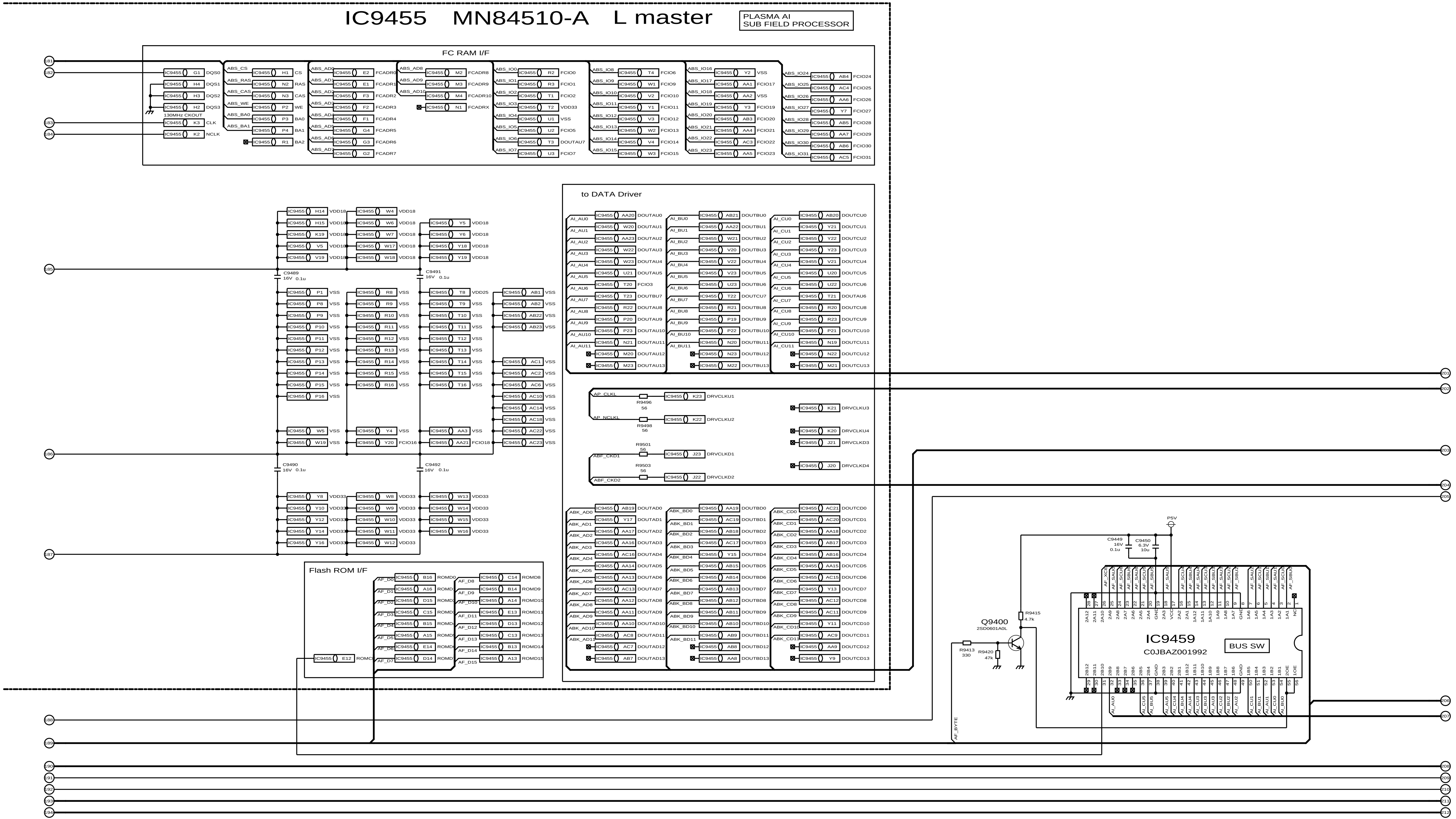
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R640	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R641	EVM(J)SA00B33	CONTROL 3KOHMB	1	
R642-45	ERJ8ENF3902	M 39K OHM, 1/8W	4	
R646	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R649	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R650	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R651	ERG1SJ221	M 220 OHM, J, 1W	1	
R652	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R653,54	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	2	
R656,57	ERJ8GEYJ332	M 3.3KOHM, J,1/8W	2	
R658	ERJ6ENF6201	M 6.2KOHM, 1/10W	1	
R659	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R660	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R661	EVM(J)SA00B53	CONTROL 5KOHMB	1	
R662	ERJ6ENF1303	M 130KOHM, 1/10W	1	
R663	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R664	ERJ6ENF9101	M 9.1KOHM, 1/10W	1	
R665	EVM(J)SA00B23	CONTROL 2KOHMB	1	
R666	ERJ6ENF9101	M 9.1KOHM, 1/10W	1	
R667	ERJ6ENF5101	M 5.1KOHM, 1/10W	1	
R668	ERJ6ENF2401	M 2.4KOHM, 1/10W	1	
R669	ERJ6ENF1303	M 130KOHM, 1/10W	1	
R670,71	ERJ6ENF2202	M 2.2KOHM, 1/10W	2	
R672	ERJ6ENF1502	M 15KOHM, 1/10W	1	
R673	ERJ6ENF5101	M 5.1KOHM, 1/10W	1	
R674,75	ERJ8GEYJ124	M 120KOHM, J,1/8W	2	
R676	ERJ8GEYJ123	M 12KOHM, J,1/8W	1	
R677	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R678	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R679,80	ERJ6ENF2202	M 2.2KOHM, 1/10W	2	
R681	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R682,83	ERJ3GEYJ2R2	M 2.2 OHM,J,1/16W	2	
R685	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R686	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R687	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R688	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R689	ERG3SJ101	M 100 OHM, J, 3W	1	
R690	ERJ6ENF3002	M 30KOHM, 1/10W	1	
R692	ERJ8GEYJ124	M 120KOHM, J,1/8W	1	
R694	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R695-97	ERJ8GEYJ124	M 120KOHM, J,1/8W	3	
R698	ERJ6GEYJ4R7	M 4.7 OHM,J,1/10W	1	
R699	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
RL401	K6B1AGA00086	RELAY	1	
RL402	K6B1AGA00177	REALY	1	
T401	G4D4A0000073	SWITCHING TRANSFORMER	1	
T402,03	ETS19AB1T6AG	SWITCHING TRANS	2	
T404	ETS28LZ116AD	SWITCHING TRANS	1	
T405	ETS42LZ116AD	SWITCHING TRANS	1	
T407	ETQ11K5AZ	CHOKE TRANS	1	
T410	ETS25AD1J6AH	SWITCHING TRANS	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
X501	H2B400400021	CRYSTAL	1	
Z415	TMM23417	CLAMPER	3	
ZN402	D4EAD6210001	VARISTOR	1	

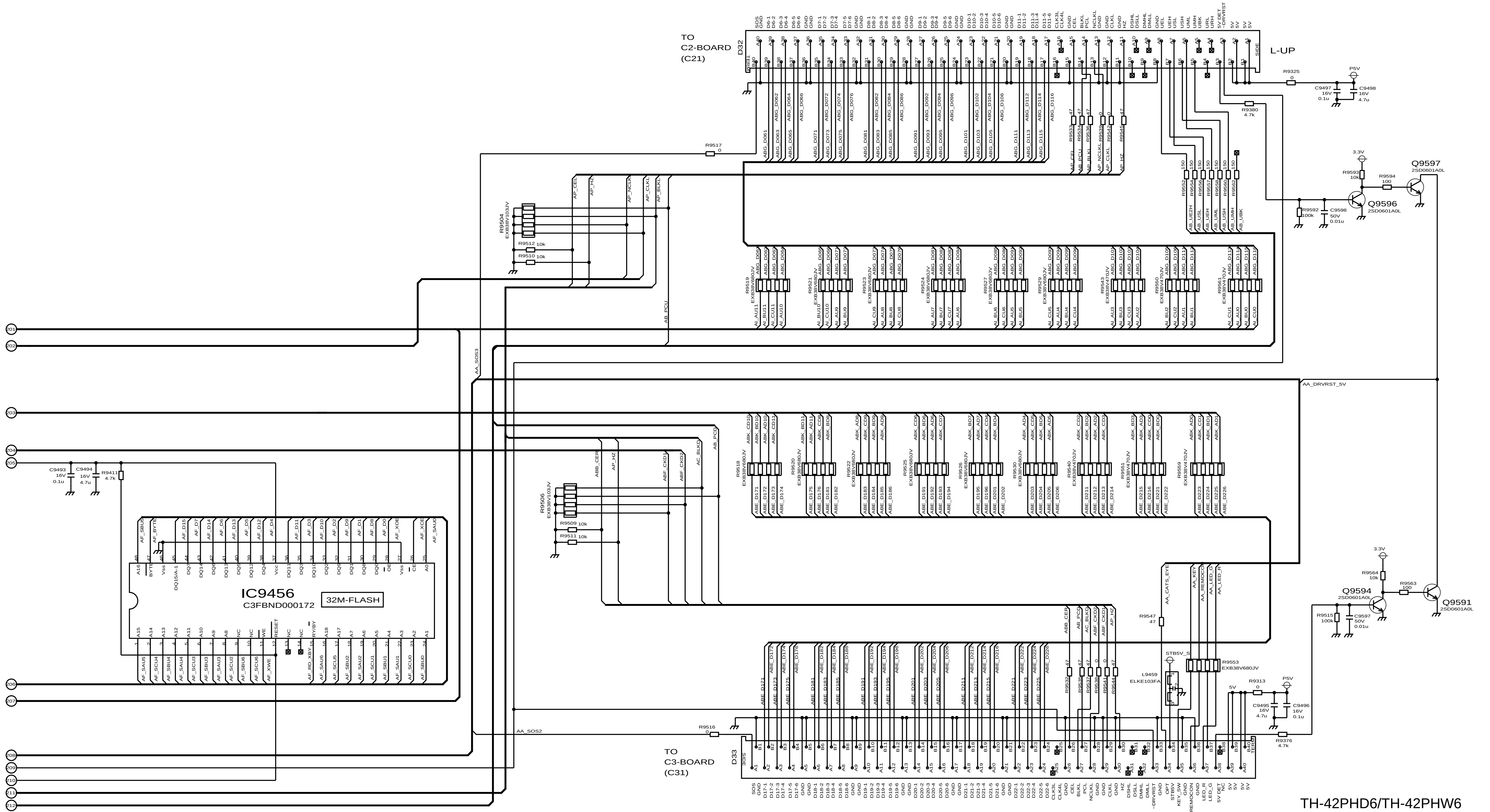
18. Schematic Diagram for printing with A4

19. Cover for printing with A4

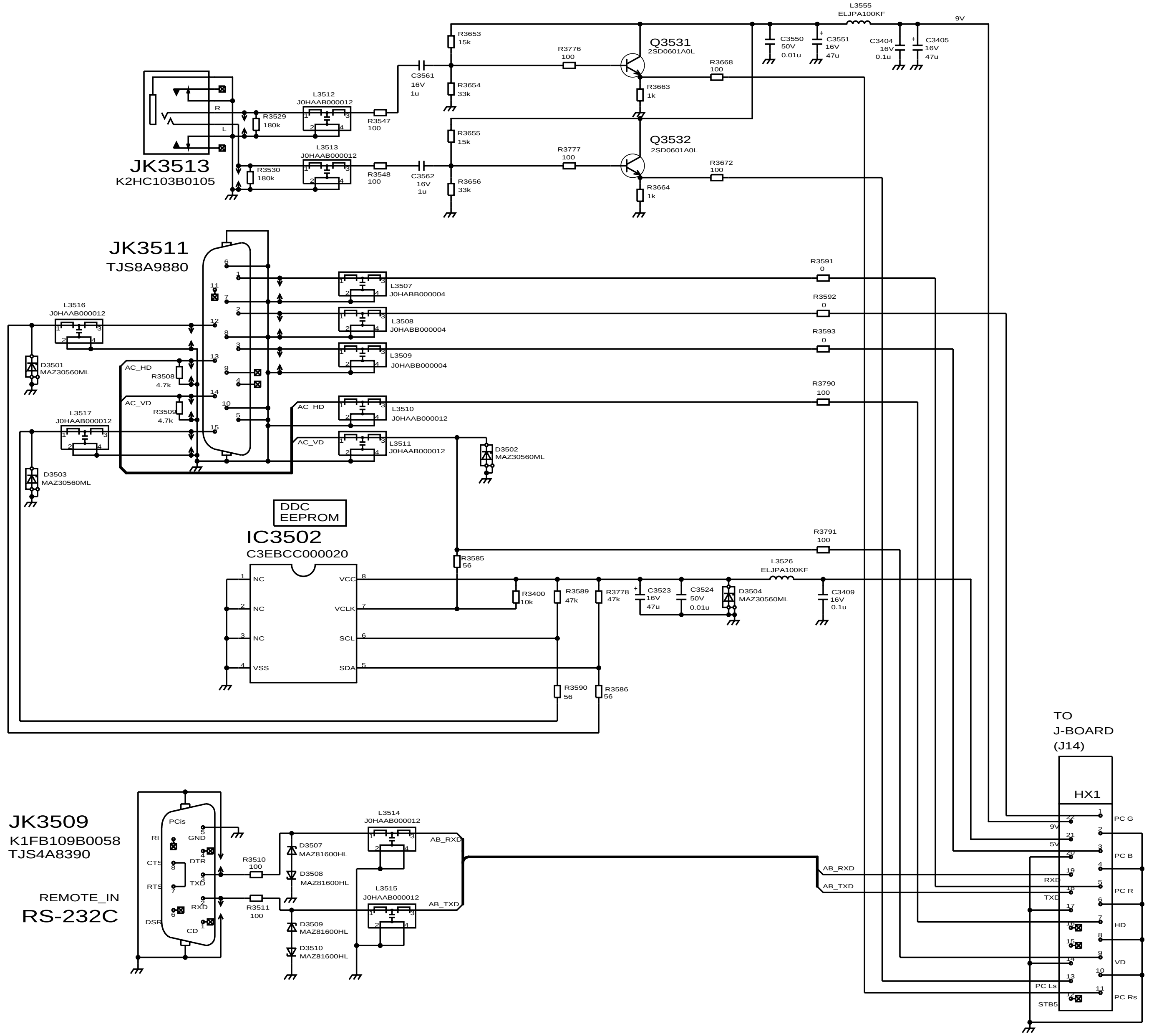
D-BOARD TZTNP01QJSU (14/15)


IC9455 MN84510-A L master
PLASMA AI
SUB FIELD PROCESSOR
FC RAM I/F
130MHz CKOUT
to DATA Driver
Flash ROM I/F
C9489 16V 0.1u
C9491 16V 0.1u
C9490 16V 0.1u
C9492 16V 0.1u
R9496 56
R9498 56
R9501 56
R9503 56
AP_CLKL
AP_NCLKL
ABF_CKD1
ABF_CKD2
DRVCLKU1
DRVCLKU2
DRVCLKD1
DRVCLKD2
DRVCLKU3
DRVCLKU4
DRVCLKD3
DRVCLKD4
P5V
C9449 16V 0.1u
C9450 6.3V 10u
Q9400
2SD0601A0L
R9415 4.7k
R9413 330
R9420 47k
AF_BYTE
IC9459
C0JBAZ001992
BUS SW
181
182
183
184
185
186
187
188
189
190
191
192
193
194
201
202
203
204
205
206
207
208
209
210
211
212

D-BOARD TZTNP01QJSU (15/15)


TO
C2-BOARD
(C21)
D32
L-UP
TO
C3-BOARD
(C31)
D33
IC9456
C3FBND000172
32M-FLASH
Q9597
2SD0601A0L
Q9596
2SD0601A0L
Q9594
2SD0601A0L
Q9591
2SD0601A0L
R9325
R9380
4.7k
R9517
R9516
R9313
R9376
4.7k
L9459
ELKE103FA
R9553
EXB38V680JV
R9547
47
R9904
R9906
R9512 10k
R9510 10k
R9509 10k
R9511 10k
C9493
C9494
R9411
4.7k
C9497
C9498
C9495
C9496
C9597
C9598
R9592
R9593
R9594
R9515
R9564
R9563
AA_SOS2
AA_SOS3
AA_DRVRST_5V
AB_PCU
P5V
3.3V
5V
STB5V_S

⚠ HX-BOARD TZTNP020QJS


A
B
C
D
E
1
2
3
4
5
6
7
8
JK3513
K2HC103B0105
R
L
R3529
180k
R3530
180k
L3512
J0HAAB000012
L3513
J0HAAB000012
R3547
100
R3548
100
C3561
16V
1u
C3562
16V
1u
R3653
15k
R3654
33k
R3655
15k
R3656
33k
R3776
100
R3777
100
Q3531
2SD0601A0L
Q3532
2SD0601A0L
R3663
1k
R3664
1k
R3668
100
R3672
100
C3550
50V
0.01u
C3551
16V
47u
L3555
ELJPA100KF
C3404
16V
0.1u
C3405
16V
47u
9V
JK3511
TJS8A9880
L3516
J0HAAB000012
D3501
MAZ30560ML
AC_HD
R3508
4.7k
AC_VD
R3509
4.7k
L3517
J0HAAB000012
D3503
MAZ30560ML
L3507
J0HABB000004
L3508
J0HABB000004
L3509
J0HABB000004
L3510
J0HAAB000012
L3511
J0HAAB000012
D3502
MAZ30560ML
R3591
0
R3592
0
R3593
0
R3790
100
DDC
EEPROM
IC3502
C3EBCC000020
NC
NC
NC
VSS
VCC
VCLK
SCL
SDA
R3585
56
R3791
100
R3400
10k
R3589
47k
R3778
47k
C3523
16V
47u
C3524
50V
0.01u
D3504
MAZ30560ML
L3526
ELJPA100KF
C3409
16V
0.1u
R3590
56
R3586
56
TO
J-BOARD
(J14)
HX1
PC G
9V
5V
PC B
RXD
PC R
TXD
HD
VD
PC Ls
PC Rs
STB5
JK3509
K1FB109B0058
TJS4A8390
REMOTE_IN
RS-232C
PCis
RI
GND
CTS
DTR
RTS
TXD
RXD
DSR
CD
R3510
100
R3511
100
D3507
MAZ81600HL
D3508
MAZ81600HL
D3509
MAZ81600HL
D3510
MAZ81600HL
L3514
J0HAAB000012
L3515
J0HAAB000012
AB_RXD
AB_TXD

TH-42PHD6/TH-42PHW6
HX-BOARD Schematic Diagram

⚠ HY-BOARD TXNHY10QBS (1/3)

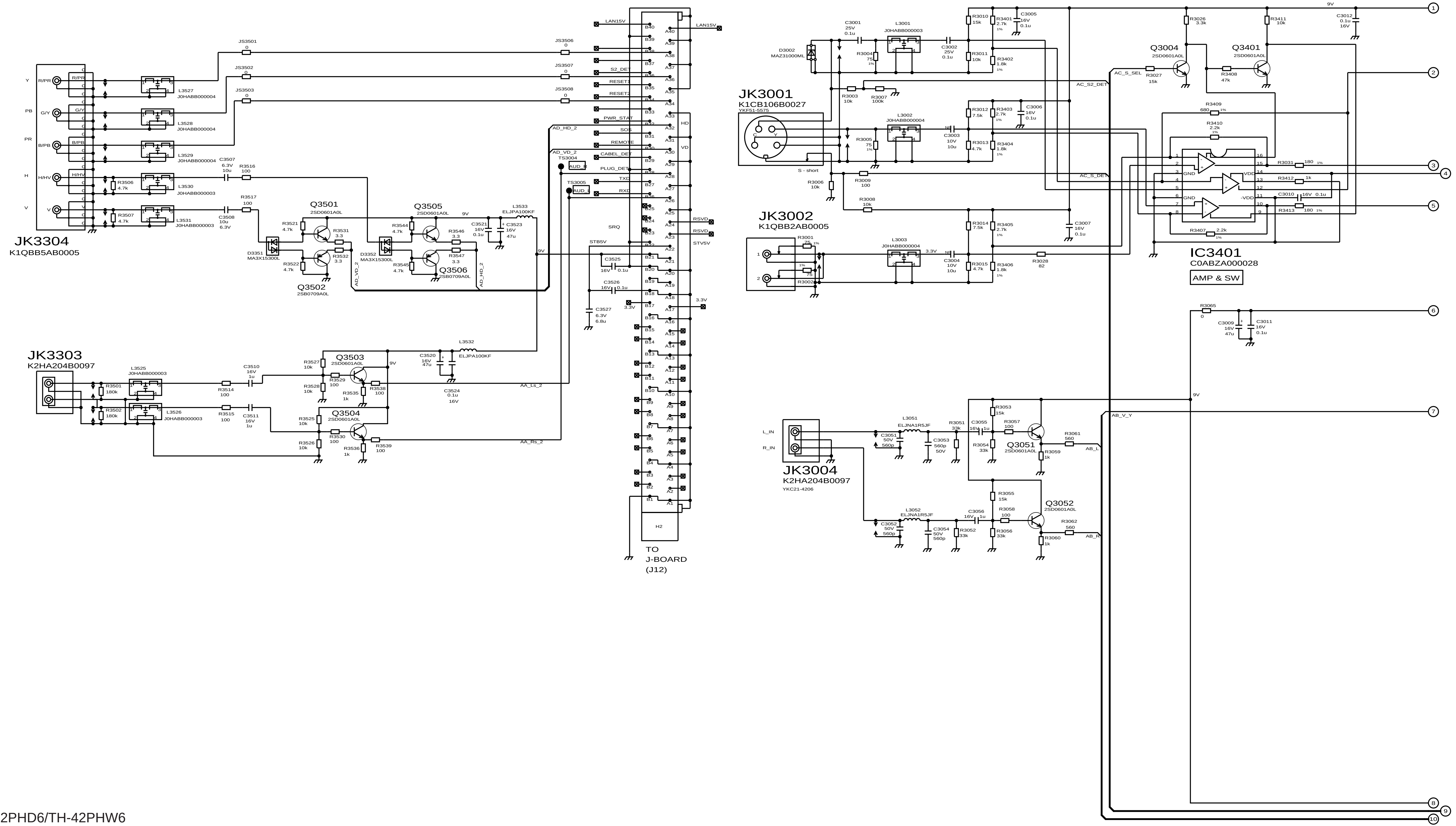
A

B

C

D

E

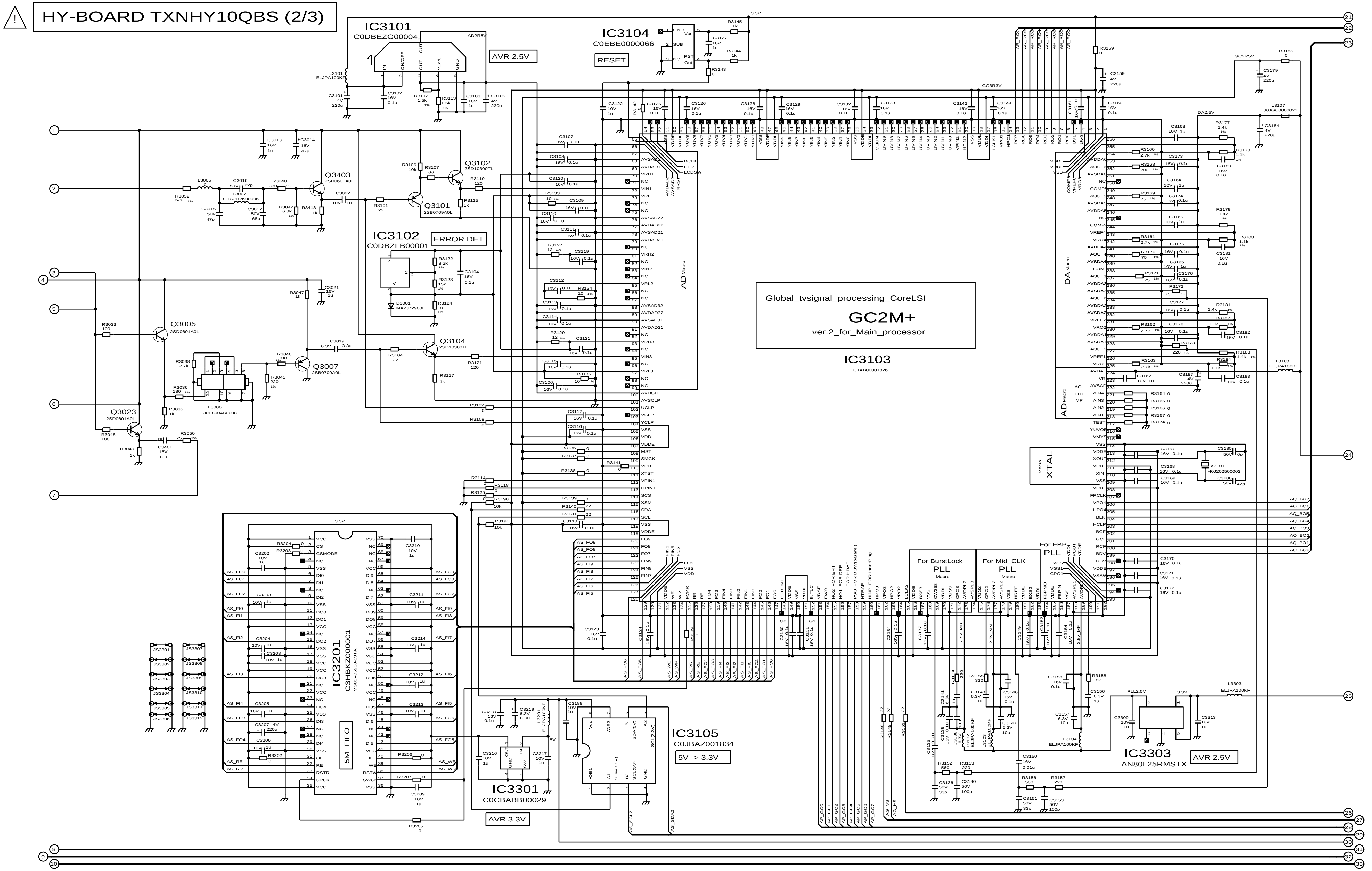

JK3304
K1QBB5AB0005
Y
PB
PR
H
V
R/PR
G/Y
B/PB
H/HV
L3527 J0HABB000004
L3528 J0HABB000004
L3529 J0HABB000004
L3530 J0HABB000003
L3531 J0HABB000003
JS3501
JS3502
JS3503
JS3506
JS3507
JS3508
Q3501 2SD0601A0L
Q3502 2SB0709A0L
Q3505 2SD0601A0L
Q3506 2SB0709A0L
D3351 MA3X15300L
D3352 MA3X15300L
L3533 ELJPA100KF
AD_HD_2
AD_VD_2
TS3004
TS3005
AUD_L
AUD_R
JK3303
K2HA204B0097
L3525 J0HABB000003
L3526 J0HABB000003
Q3503 2SD0601A0L
Q3504 2SD0601A0L
L3532 ELJPA100KF
AA_Ls_2
AA_Rs_2
LAN15V
S2_DET
RESET1
RESET2
PWR_STAT
SOS
REMOTE
CABEL_DET
PLUG_DET
TXD
RXD
SRQ
STB5V
RSVD
STV5V
HD
VD
3.3V
9V
H2
TO
J-BOARD
(J12)
JK3001
K1CB106B0027
YKF51-5575
S - short
D3002 MAZ31000ML
L3001 J0HABB000003
L3002 J0HABB000004
L3003 J0HABB000004
JK3002
K1QBB2AB0005
Q3004 2SD0601A0L
Q3401 2SD0601A0L
AC_S_SEL
AC_S2_DET
AC_S_DET
IC3401
C0ABZA000028
AMP & SW
GND
VDD
-VDD
JK3004
K2HA204B0097
YKC21-4206
L_IN
R_IN
L3051 ELJNA1R5JF
L3052 ELJNA1R5JF
Q3051 2SD0601A0L
Q3052 2SD0601A0L
AB_L
AB_R
AB_V_Y
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩

TH-42PHD6/TH-42PHW6
HY-BOARD (1 of 3) Schematic Diagram

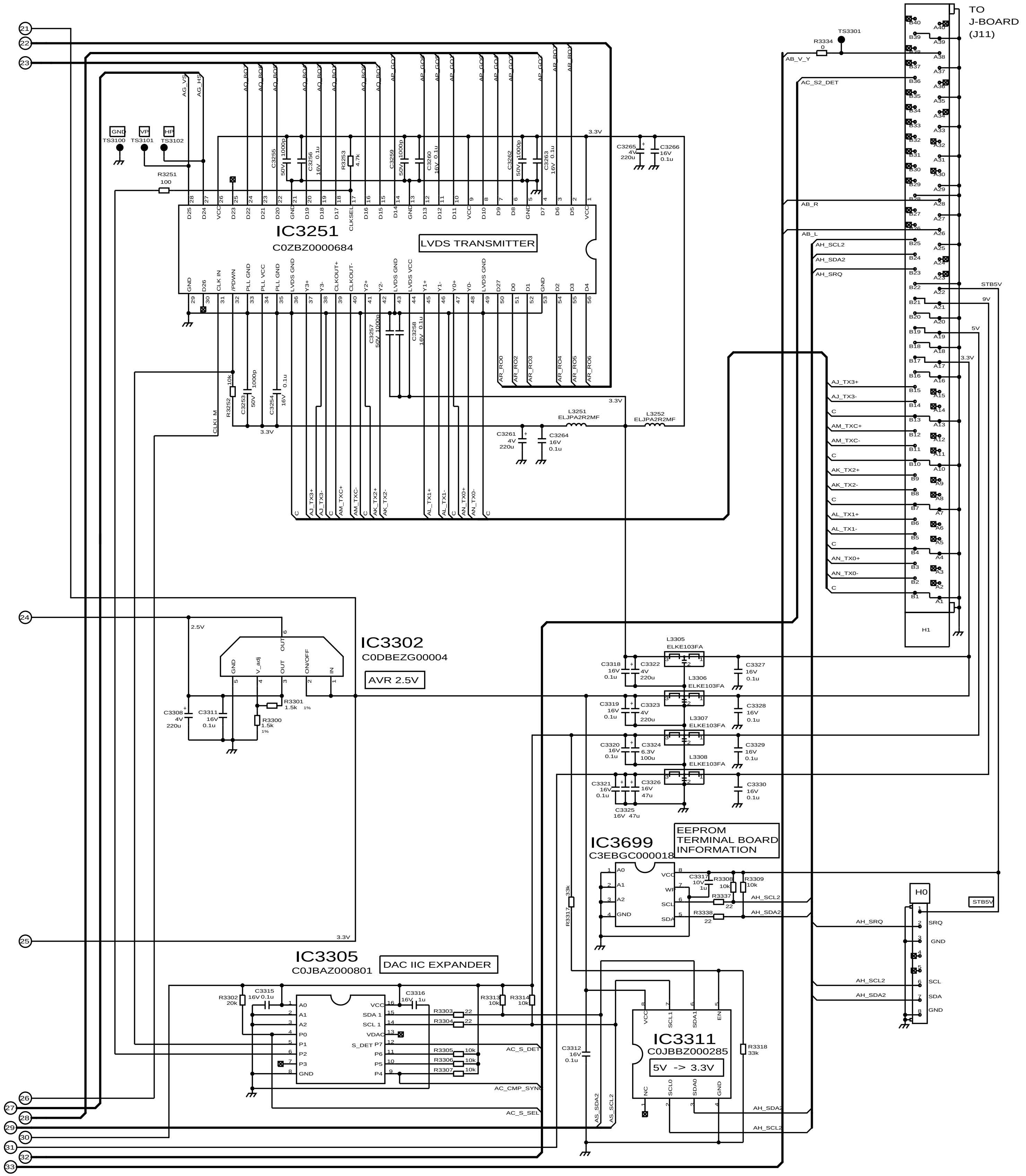
TH-42PHD6/TH-42PHW6 HY-BOARD (1 of 3) Schematic Diagram

1 2 3 4 5 6 7 8

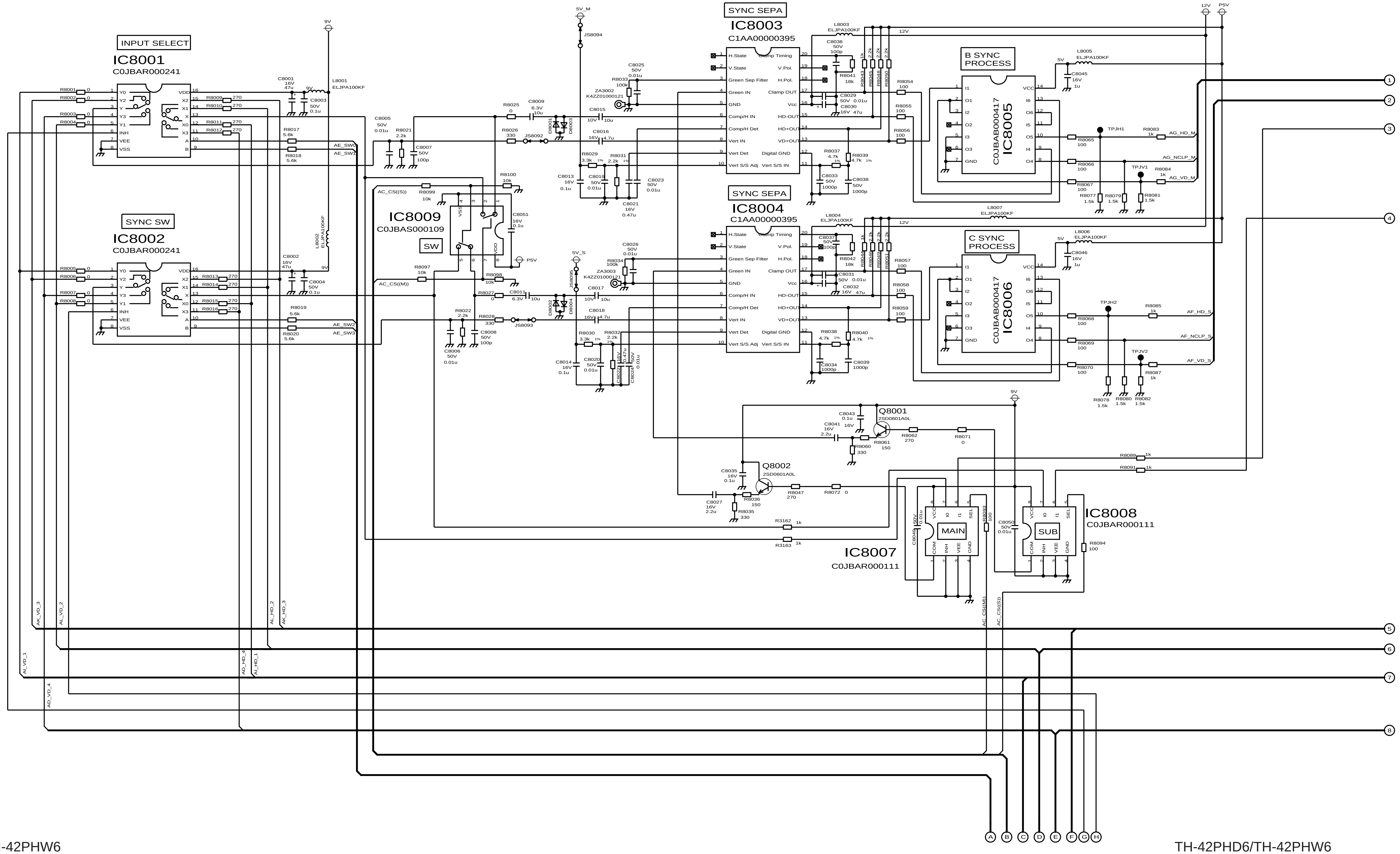
HY-BOARD TXNHY10QBS (2/3)


IC3101
C0DBEZG00004
AVR 2.5V
IC3104
C0EBE0000066
RESET
IC3102
C0DBZLB00001
ERROR DET
Q3403
2SD0601A0L
Q3102
2SD1030OTL
Q3101
2SB0709A0L
Q3005
2SD0601A0L
Q3007
2SB0709A0L
Q3104
2SD1030OTL
Q3023
2SD0601A0L
L3006
J0E8004B0008
D3001
MA2J72900L
Global_tvsignal_processing_CoreLSI
GC2M+
ver.2_for_Main_processor
IC3103
C1AB00001826
AD Macro
DA Macro
XTAL Macro
X3101
H0J202500002
For BurstLock PLL Macro
For Mid_CLK PLL Macro
For FBP PLL
IC3201
C3HBKZ000001
M5M1V5200-13TA
5M_FIFO
IC3301
C0CBABB00029
AVR 3.3V
IC3105
C0JBAZ001834
5V -> 3.3V
IC3303
AN80L25RMSTX
AVR 2.5V
3.3V
GC3R3V
GC2R5V
DA2.5V
AD2R5V
PLL2.5V
JS3301
JS3302
JS3303
JS3304
JS3305
JS3306
JS3307
JS3308
JS3309
JS3310
JS3311
JS3312
AQ_BO7
AQ_BO6
AQ_BO5
AQ_BO4
AQ_BO3
AQ_BO2
AQ_BO1
AQ_BO0
AP_GO0
AP_GO1
AP_GO2
AP_GO3
AP_GO4
AP_GO5
AP_GO6
AP_GO7
AG_VS
AG_HS
AS_SCL2
AS_SDA2
1
2
3
4
5
6
7
8
9
10
21
22
23
24
25
26
27
28
29
30
31
32
33

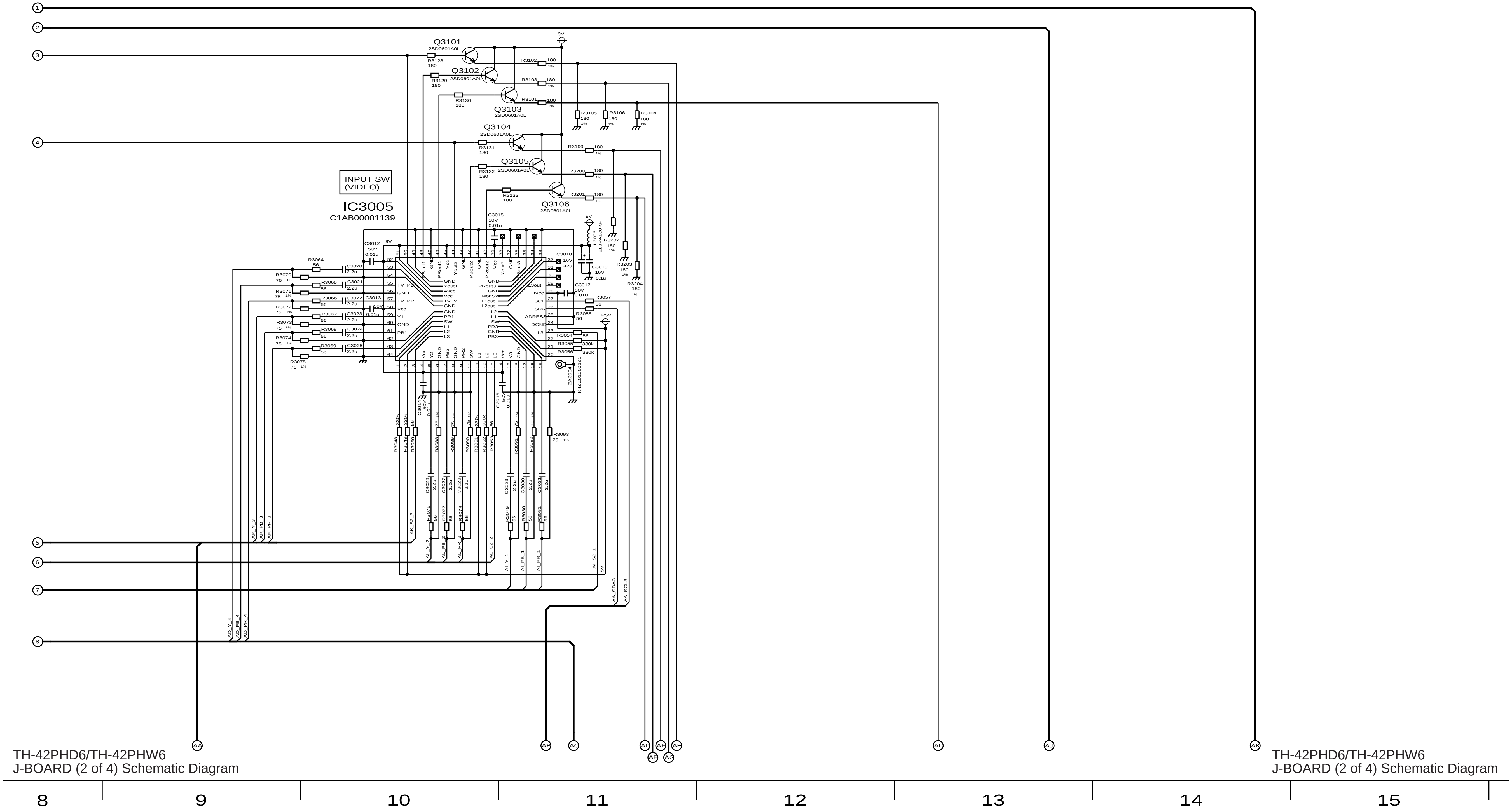
⚠ HY-BOARD TXNHY10QBS (3/3)


IC3251
C0ZBZ0000684
LVDS TRANSMITTER
IC3302
C0DBEZG00004
AVR 2.5V
IC3699
C3EBGC000018
EEPROM
TERMINAL BOARD
INFORMATION
IC3305
C0JBAZ000801
DAC IIC EXPANDER
IC3311
C0JBBZ000285
5V -> 3.3V
TO
J-BOARD
(J11)
H1
H0
TS3100
TS3101
TS3102
TS3301
GND
VP
HP
L3251
ELJPA2R2MF
L3252
ELJPA2R2MF
L3305
ELKE103FA
L3306
ELKE103FA
L3307
ELKE103FA
L3308
ELKE103FA
AB_V_Y
AC_S2_DET
AB_R
AB_L
AH_SCL2
AH_SDA2
AH_SRQ
STB5V
9V
5V
3.3V
2.5V
AJ_TX3+
AJ_TX3-
AM_TXC+
AM_TXC-
AK_TX2+
AK_TX2-
AL_TX1+
AL_TX1-
AN_TX0+
AN_TX0-
AC_S_DET
AC_CMP_SYNC
AC_S_SEL
AS_SDA2
AS_SCL2
CLKI_M
21
22
23
24
25
26
27
28
29
30
31
32
33

J-BOARD TNPA2826 (1/4)


A
B
C
D
E
1
2
3
4
5
6
7
8
INPUT SELECT
IC8001
C0JBAR000241
SYNC SW
IC8002
C0JBAR000241
IC8009
C0JBAS000109
SW
SYNC SEPA
IC8003
C1AA00000395
SYNC SEPA
IC8004
C1AA00000395
B SYNC PROCESS
IC8005
C0JBAB000417
C SYNC PROCESS
IC8006
C0JBAB000417
IC8007
C0JBAR000111
MAIN
IC8008
C0JBAR000111
SUB
Q8001
2SD0601A0L
Q8002
2SD0601A0L
9V
5V_M
5V_S
12V
P5V
5V
L8001 ELJPA100KF
L8002 ELJPA100KF
L8003 ELJPA100KF
L8004 ELJPA100KF
L8005 ELJPA100KF
L8006 ELJPA100KF
L8007 ELJPA100KF
H.State
V.State
Green Sep Filter
Green IN
GND
Comp/H IN
Comp/H Det
Vert IN
Vert Det
Vert S/S Adj
Clamp Timing
V.Pol.
H.Pol.
Clamp OUT
Vcc
HD-OUT
HD+OUT
VD+OUT
Digital GND
Vert S/S IN
ZA3002 K4ZZ01000121
ZA3003 K4ZZ01000121
JS8092
JS8093
JS8094
JS8095
D8001
D8002
D8003
D8004
TPJH1
TPJV1
TPJH2
TPJV2
AE_SW0
AE_SW1
AE_SW2
AE_SW3
AC_CS((S))
AC_CS((M))
AG_HD_M
AG_NCLP_M
AG_VD_M
AF_HD_S
AF_NCLP_S
AF_VD_S
AK_VD_3
AL_VD_2
AL_HD_2
AK_HD_3
AI_VD_1
AD_HD_4
AI_HD_1
AD_VD_4
AC_CS(M)
AC_CS(S)
R3162 1k
R3163 1k
①
②
③
④
⑤
⑥
⑦
⑧
Ⓐ
Ⓑ
Ⓒ
Ⓓ
Ⓔ
Ⓕ
Ⓖ
Ⓗ

J-BOARD TNPA2826 (2/4)



INPUT SW (VIDEO)
IC3005
C1AB00001139
Q3101
Q3102
Q3103
Q3104
Q3105
Q3106
2SD0601A0L
R3128 180
R3129 180
R3130 180
R3131 180
R3132 180
R3133 180
R3102 180
R3103 180
R3101 180
R3105 180
R3106 180
R3104 180
R3199 180
R3200 180
R3201 180
R3202 180
R3203 180
R3204 180
9V
C3015 50V 0.01u
C3012 50V 0.01u
C3018 16V 47u
C3019 16V 0.1u
C3017 50V 0.01u
L3006 ELJFA100KF
R3057 56
R3058 56
R3054 56
R3055 330k
R3056 330k
P5V
ZA3004 K4ZZ01000121
R3064 56
R3065 56
R3066 56
R3067 56
R3068 56
R3069 56
R3070 75
R3071 75
R3072 75
R3073 75
R3074 75
R3075 75
C3020 2.2u
C3021 2.2u
C3022 2.2u
C3023 2.2u
C3024 2.2u
C3025 2.2u
C3013 50V 0.01u
C3014 50V 0.01u
C3016 50V 0.01u
R3048 330k
R3049 330k
R3050 56
R3088 75
R3089 75
R3090 75
R3051 330k
R3052 330k
R3053 56
R3091 75
R3092 75
R3093 75
C3026 2.2u
C3027 2.2u
C3028 2.2u
C3029 2.2u
C3030 2.2u
C3031 2.2u
R3076 56
R3077 56
R3078 56
R3079 56
R3080 56
R3081 56
AK_Y_3
AK_PB_3
AK_PR_3
AK_S2_3
AL_Y_2
AL_PB_2
AL_PR_2
AL_S2_2
AI_Y_1
AI_PB_1
AI_PR_1
AI_S2_1
5V
AA_SDA3
AA_SCL3
AD_Y_4
AD_PB_4
AD_PR_4
①
②
③
④
⑤
⑥
⑦
⑧
AA
AB
AC
AD
AE
AF
AG
AH
AI
AJ
AK
8
9
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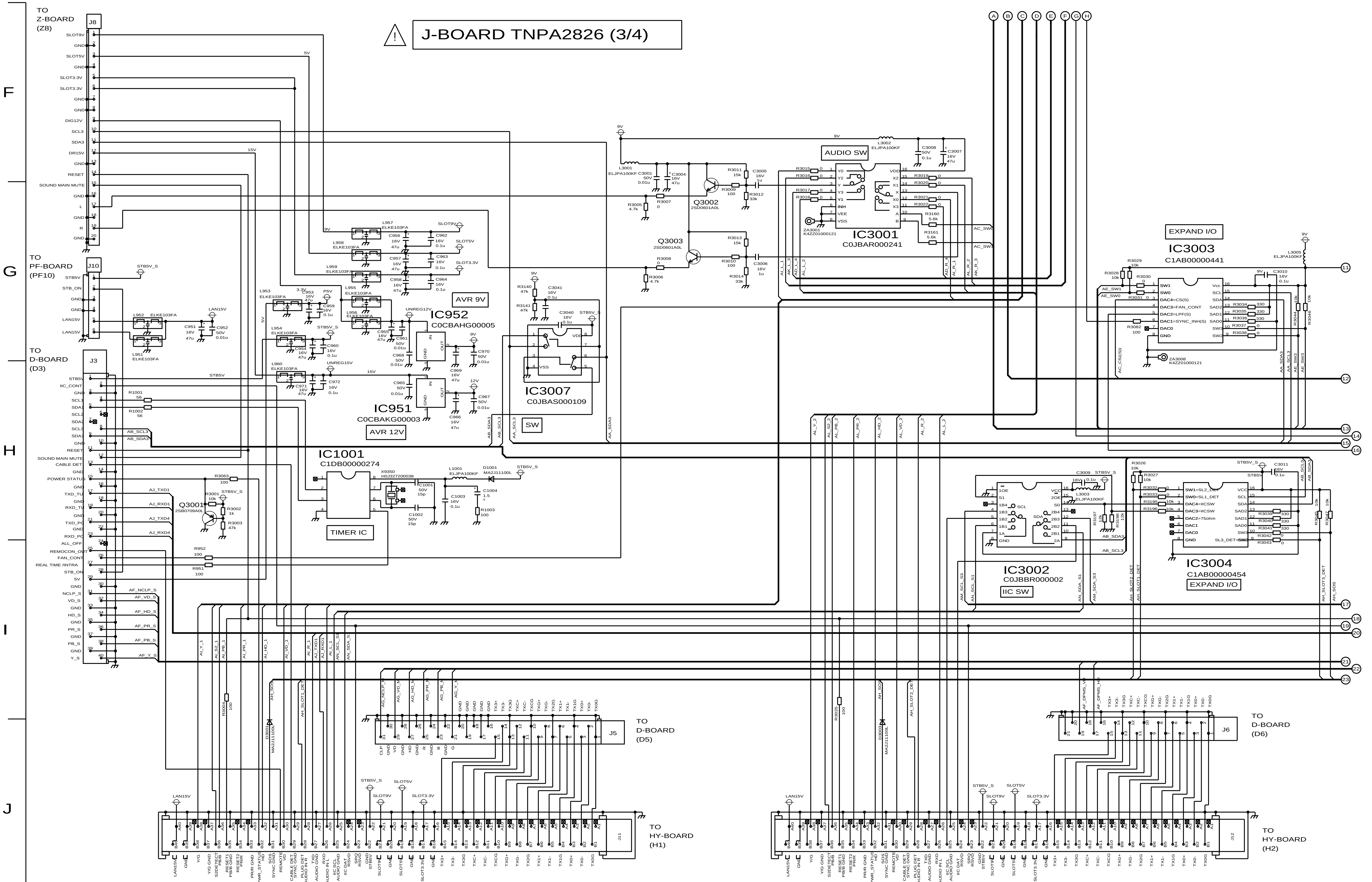
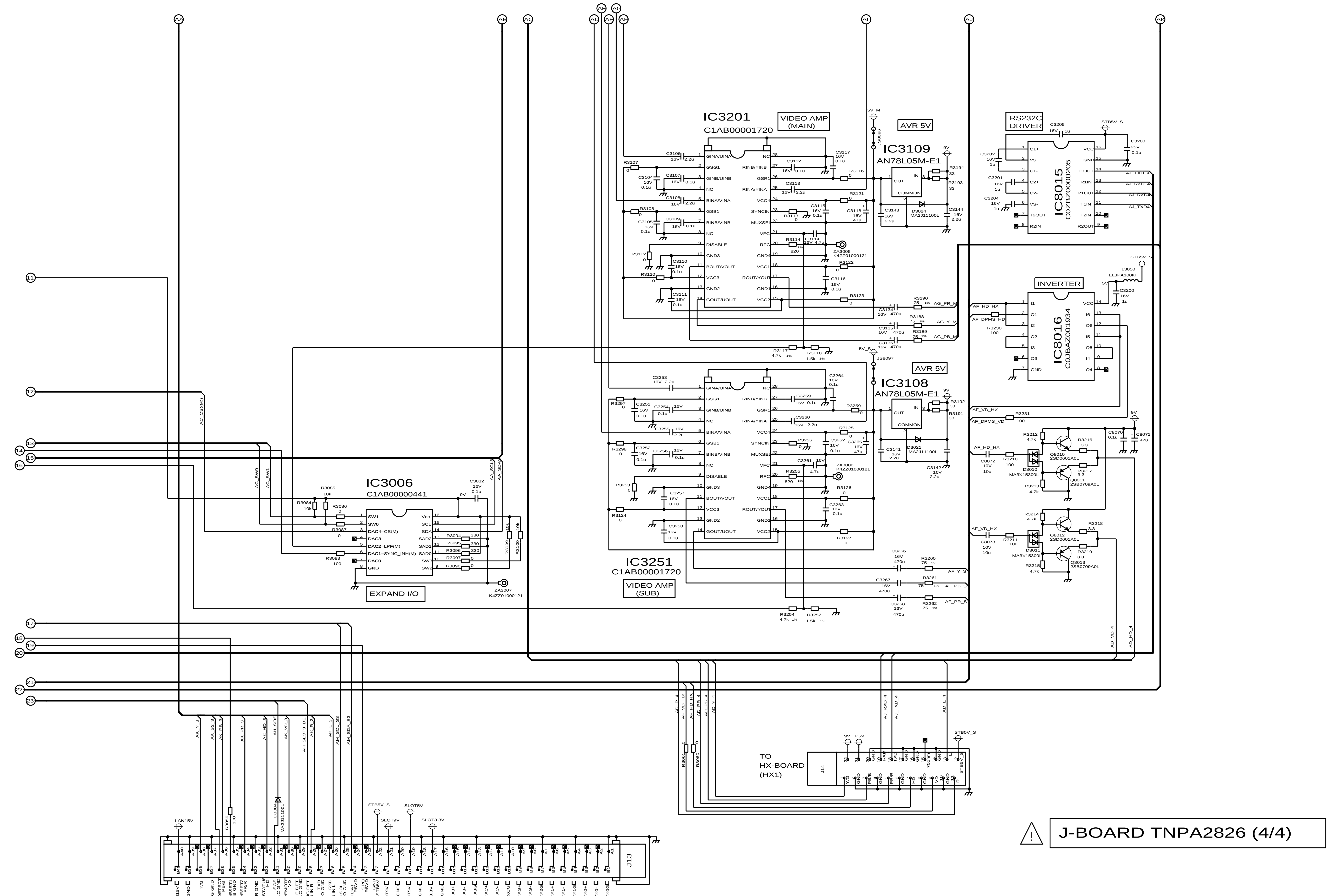
14
15


J-BOARD TNPA2826 (3/4)
TO Z-BOARD (Z8)
J8
SLOT9V
GND
SLOT5V
SLOT3.3V
DIG12V
SCL3
SDA3
DR15V
RESET
SOUND MAIN MUTE
L
R
TO PF-BOARD (PF10)
J10
STB5V
STB_ON
LAN15V
TO D-BOARD (D3)
J3
IIC_CONT
CABLE DET
POWER STATUS
TXD_TU
RXD_TU
TXD_PC
RXD_PC
ALL_OFF
REMOCON_OUT
FAN_CONT
REAL TIME /INTRA
NCLP_S
VD_S
HD_S
PR_S
PB_S
Y_S
Q3001
2SB0709A0L
IC1001
C1DB00000274
TIMER IC
X9350
H0J327200038
L1001
ELJPA100KF
D1001
MA2J11100L
IC952
C0CBAHG00005
AVR 9V
IC951
C0CBAKG00003
AVR 12V
UNREG12V
UNREG15V
IC3007
C0JBAS000109
SW
Q3002
2SD0601A0L
Q3003
2SD0601A0L
L3001
ELJPA100KF
L3002
ELJPA100KF
AUDIO SW
IC3001
C0JBAR000241
ZA3001
K4ZZ01000121
AC_SW1
AC_SW2
EXPAND I/O
IC3003
C1AB00000441
L3005
ELJPA100KF
ZA3008
K4ZZ01000121
SW1
SW0
DAC4=CS(S)
DAC3=FAN_CONT
DAC2=LPF(S)
DAC1=SYNC_INH(S)
DAC0
IC3002
C0JBBR000002
IIC SW
L3003
ELJPA100KF
IC3004
C1AB00000454
SW1=SL2_DET
SW0=SL1_DET
DAC4=IICSW
DAC3=IICSW
DAC2=75ohm
SL3_DET=SW2
A
B
C
D
E
F
G
H
11
12
13
14
15
16
17
18
19
20
21
22
23
TO D-BOARD (D5)
J5
TO D-BOARD (D6)
J6
TO HY-BOARD (H1)
J11
TO HY-BOARD (H2)
J12
D3001
MA2J11100L
D3003
MA2J11100L
F
G
H
I
J
1
2
3
4
5
6
7
8

TH-42PHD6/TH-42PHW6 J-BOARD (3 of 4) Schematic Diagram

TH-42PHD6/TH-42PHW6 J-BOARD (3 of 4) Schematic Diagram


IC3201
C1AB00001720
VIDEO AMP (MAIN)
AVR 5V
IC3109
AN78L05M-E1
RS232C DRIVER
IC8015
C0ZBZ0000205
INVERTER
IC8016
C0JBAZ001934
IC3251
C1AB00001720
VIDEO AMP (SUB)
AVR 5V
IC3108
AN78L05M-E1
IC3006
C1AB00000441
EXPAND I/O
TO HX-BOARD (HX1)
J14
J13
J-BOARD TNPA2826 (4/4)
AA
AB
AC
AD
AE
AF
AG
AH
AI
AJ
AK
11
12
13
14
15
16
17
18
19
20
21
22
23
5V_M
9V
STB5V_S
5V_S
LAN15V
STB5V_S
SLOT9V
SLOT5V
SLOT3.3V
ZA3005
K4ZZ01000121
ZA3006
K4ZZ01000121
ZA3007
K4ZZ01000121
Q8010
2SD0601A0L
Q8011
2SB0709A0L
Q8012
2SD0601A0L
Q8013
2SB0709A0L
D8010
MA3X15300L
D8011
MA3X15300L
D3024
MA2J11100L
D3021
MA2J11100L
D3004
MA2J11100L
L3050
EL JPA100KF
LAN15V
GND
Y/G
Y/G GND
S2DETECT PB/B
RESET1 PB/B GND
RESET2 PR/R
PR/R GND
PWR_STATUS HD
SOG SYNC GND
REMOTE VD
CABLE DET SYNC GND
PLUG DET AUDIO IN R
TXD AUDIO GND
AUDIO IN L
IIC SCL AUDIO GND
IIC DAT RSVD
SNO RSVD
GND STB5V
SLOT9V
GND
SLOT5V
GND
SLOT3.3V
GND
TX3+
TX3-
TX3G
TXC+
TXC-
TXCG
TXG+
TXG-
TX2G
TX1+
TX1-
TX1G
TX0+
TX0-
TX0G

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

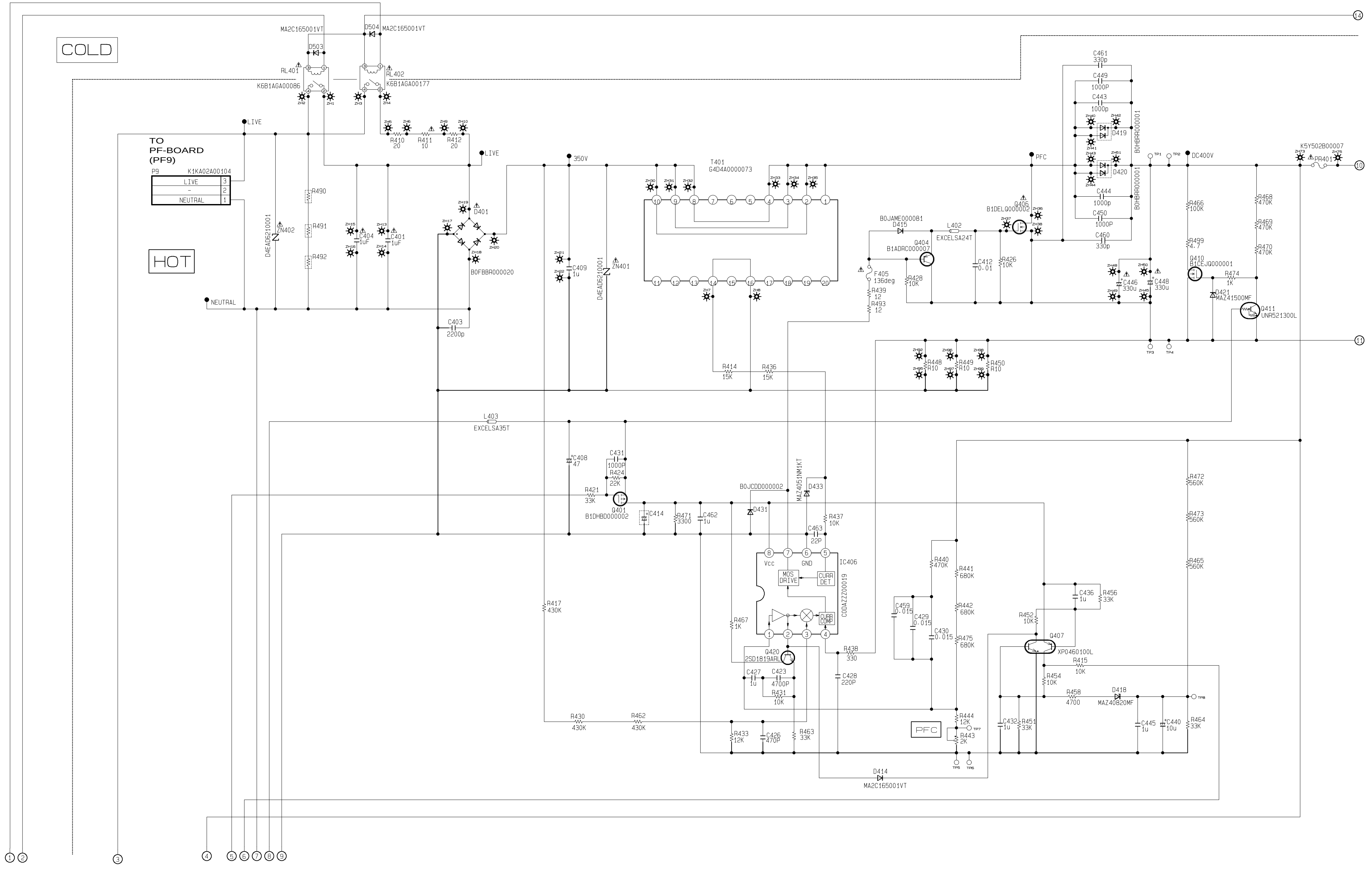
1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [ ] (K=1,000, M=1,000,000).
   ○ : Nonflammable
   △ : Solid
   ⧄ : Wire Wound
   ⊠ : Metal Oxide
   ◎ : Metal Film
   ⊗ : Fuse**:**
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is F, unless otherwise noted.
   ⊗ : Temperature Compensation
   Ⓜ : Polyester
   ⓜ : Metalized Polyester
   ⊠ : Polypropylene
   +┤├ : Electrolytic
   NP┤├ : Bipolar
   Ⓣ : Dipped Tantalum
   Ⓩ : Z-Type
3. Coil
   Unit of inductance is F, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold)
   ▽ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source ....AC 120V, 50/60Hz
   (UY VERSION model)/
   AC220-240V, 50/60Hz
   (Except UY VERSION)
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (➚) is found, connection is easily found from the direction of arrow

9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   - a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   - b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
     Connect the earth of instruments to the earth connection of the circuit being measured.
   - d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

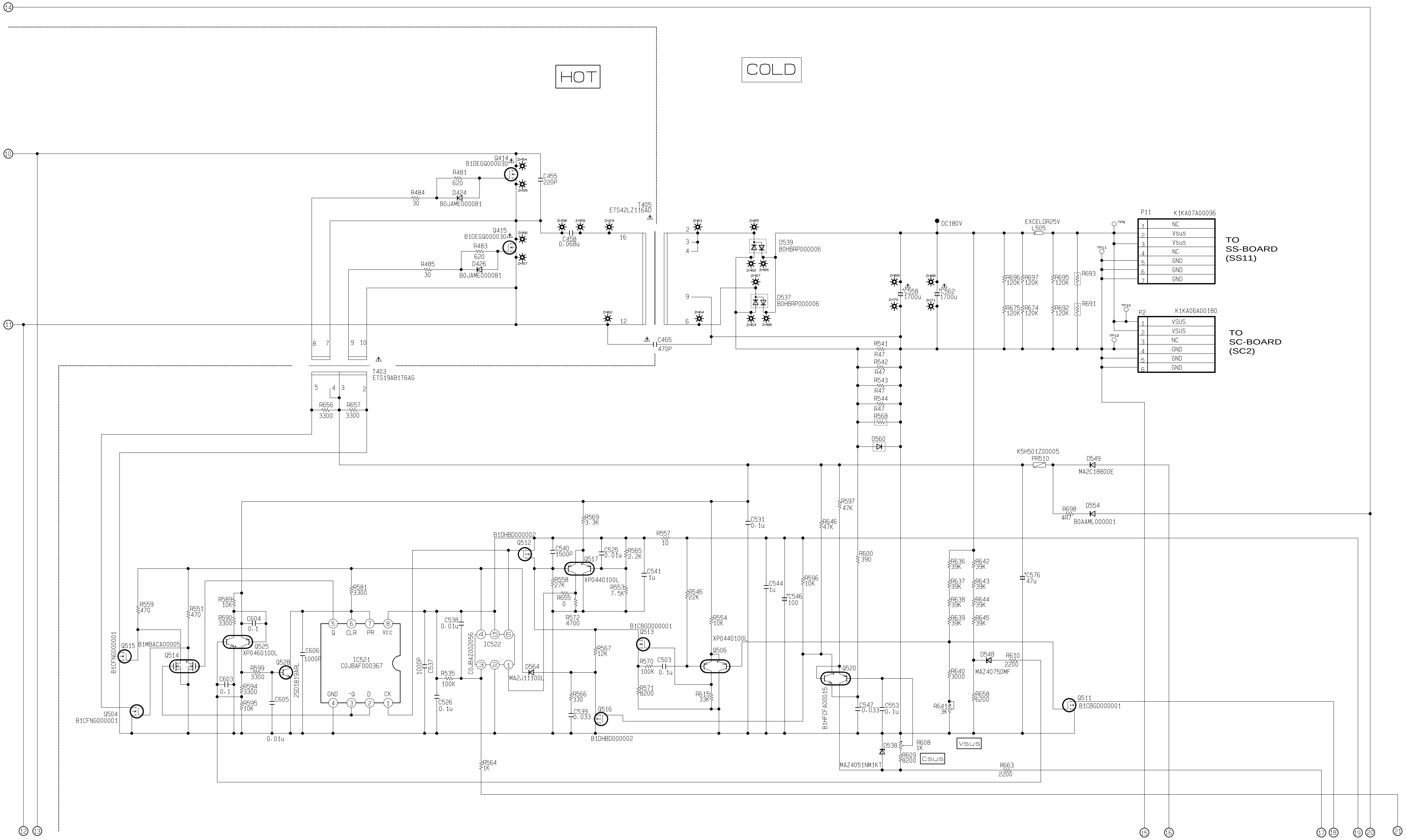
⚠ P-BOARD TNPA2889 (1/6)


COLD
HOT
TO
PF-BOARD
(PF9)
P9 K1KA02A00104
LIVE
-
NEUTRAL
LIVE
NEUTRAL
MA2C165001VT
D503
D504
MA2C165001VT
RL401
K6B1AGA00086
RL402
K6B1AGA00177
R410 20
R411 10
R412 20
R490
R491
R492
ZN402
D4EAD5210001
C404 1uF
C401 1uF
D401
B0FBBR000020
C403 2200p
350V
C409 1u
ZN401
D4EAD5210001
T401
G4D4A0000073
R414 15K
R436 15K
B0JAME000081
D415
L402
EXCELSA24T
Q405
B1DELQ000002
Q404
B1ADRC000007
F405 136deg
R439 12
R493 12
R428 10K
C412 0.01
R426 10K
PFC
C461 330p
C449 1000P
C443 1000p
D419
D420
B0HBBR000001
C444 1000p
C450 1000P
C460 330p
C446 330u
C448 330u
TP1
TP2
DC400V
K5Y502B00007
PR401
R466 100K
R499 4.7
Q410 B1CEJQ000001
R474 1K
D421 MAZ41500MF
Q411 UNR521300L
R468 470K
R469 470K
R470 470K
TP3
TP4
R448 R10
R449 R10
R450 R10
L403
EXCELSA35T
C408 47
C431 1000P
R424 22K
R421 33K
Q401
B1DHBD000002
C414
R471 3300
C462 1u
B0JCDD000002
D431
MAZ4051NM1KT
D433
R437 10K
C463 22P
IC406
C0DAZZ000019
Vcc
GND
MOS DRIVE
CURR DET
CURR COMP
R467 1K
R417 430K
Q420
2SD1819ARL
C427 1u
C423 4700P
R431 10K
R438 330
C428 220P
R430 430K
R462 430K
R433 12K
C426 470P
R463 33K
R440 470K
R441 680K
R442 680K
R475 680K
C459 0.015
C429 0.015
C430 0.015
R444 12K
R443 2K
TP5
TP6
TP7
PFC
D414
MA2C165001VT
C436 1u
R456 33K
R452 10K
Q407
XP0460100L
R415 10K
R454 10K
R458 4700
D418
MAZ40820MF
TP8
C432 1u
R451 33K
C445 1u
C440 10u
R464 33K
R472 560K
R473 560K
R465 560K
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑭
A
B
C
D
E
1
2
3
4
5
6
7
8

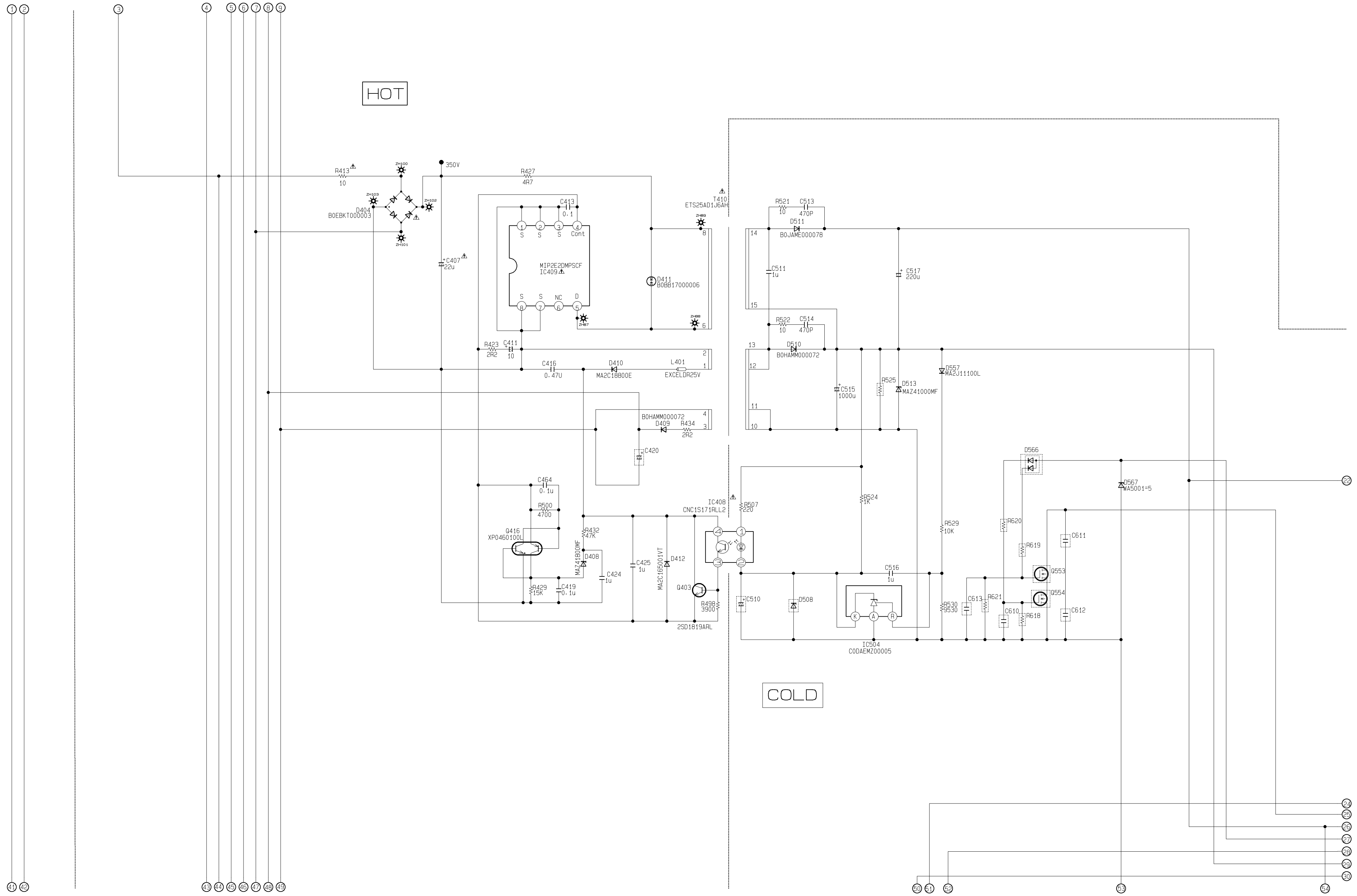
TH-42PHD6/TH-42PHW6
P-BOARD (1 of 6) Schematic Diagram

TH-42PHD6/TH-42PHW6
P-BOARD (1 of 6) and Schematic Diagram

⚠ P-BOARD TNPA2889 (2/6)


HOT
COLD
T405
ETS42LZ116AD
T403
ETS19AB1T6AG
Q414
B1DEGQ000030
Q415
B1DEGQ000030
R481
620
R483
620
R484
30
R485
30
D424
B0JAME000081
D426
B0JAME000081
C455
220P
C458
0.068u
C465
470P
D539
B0HBRP000006
D537
B0HBRP000006
DC180V
C558
1700u
C562
1700u
EXCELDR25V
L505
R696
120K
R697
120K
R695
120K
R693
R675
120K
R674
120K
R692
120K
R691
P11
K1KA07A00096
NC
Vsus
Vsus
NC
GND
GND
GND
TO
SS-BOARD
(SS11)
P2
K1KA06A00180
VSUS
VSUS
NC
GND
GND
GND
TO
SC-BOARD
(SC2)
R541
R47
R542
R47
R543
R47
R544
R47
R568
D560
K5H501Z00005
PR510
D549
MA2C18800E
R698
4R7
D554
B0AAML000001
R656
3300
R657
3300
R569
3.3K
R557
10
C531
0.1u
R597
47K
R646
47K
R600
390
B1DHBD000002
Q512
C540
1500P
C525
0.01u
R565
2.2K
C541
1u
Q517
XP0440100L
R558
27K
R655
0
R553
7.5K
R572
4700
R546
22K
C544
1u
C546
100
R596
10K
R636
39K
R637
39K
R638
39K
R639
39K
R642
39K
R643
39K
R644
39K
R645
39K
C576
47u
R581
3300
R589
10K
R590
3300
C604
0.1
Q525
XP0460100L
R559
470
R551
470
B1MBACA00005
Q514
Q515
B1CFNG000001
Q504
B1CFNG000001
C603
0.1
R599
3300
R594
3300
R595
10K
Q528
2SD1819AHL
C605
0.01u
C606
1000P
IC521
C0JBAF000367
Q
CLR
PR
Vcc
GND
-Q
D
CK
C538
0.01u
1000P
C537
R535
100K
C526
0.1u
C0JBAZ002056
IC522
D564
MA2J11100L
R566
330
C539
0.033
Q516
B1DHBD000002
R567
12K
B1CBGD000001
Q513
R570
100K
C503
0.1u
R571
8200
R554
10K
XP0440100L
Q506
R615
33K
B1HFCFA00015
Q520
C547
0.033
C553
0.1u
D538
MAZ4051NM1KT
R608
1K
R609
8200
Csus
R640
3000
R641
3K
D548
MAZ40750MF
R610
2200
R658
6200
Vsus
Q511
B1CBGD000001
R663
2200
R564
1K
⑩
⑪
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲
⑳
㉑

⚠ P-BOARD TNPA2889 (3/6)


①
②
③
④
⑤
⑥
⑦
⑧
⑨
HOT
COLD
R413 ⚠
10
ZH100
ZH101
ZH102
ZH103
D404
B0EBKT000003
350V
C407 ⚠
22u
R427
4R7
C413
0.1
1 S
2 S
3 S
4 Cont
MIP2E2DMPSCF
IC409 ⚠
8 S
7 S
6 NC
5 D
ZH87
ZH88
ZH89
D411
B0BB17000006
T410 ⚠
ETS25AD1J6AH
R423
2R2
C411
10
C416
0.47U
D410
MA2C18800E
L401
EXCELDR25V
B0HAMM000072
D409
R434
2R2
C420
C464
0.1u
R500
4700
Q416
XP0460100L
R432
47K
MAZ41800MF
D408
C424
1u
R429
15K
C419
0.1u
C425
1u
MA2C165001VT
D412
IC408 ⚠
CNC1S171RLL2
Q403
R498
3900
2SD1819ARL
R507
220
R521
10
C513
470P
D511
B0JAME000078
C511
1u
C517
220u
R522
10
C514
470P
D510
B0HAMM000072
C515
1000u
R525
D513
MAZ41000MF
D557
MA2J11100L
R524
1K
R529
10K
C510
D508
C516
1u
K
A
R
IC504
C0DAEMZ00005
R530
9530
C613
R621
C610
R618
R620
R619
Q553
Q554
C611
C612
D566
D567
WA5001=5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
㉒
㉔
㉕
㉖
㉗
㉘
㉙
㉚
(41)
(42)
(43)
(44)
(45)
(46)
(47)
(48)
(49)
(50)
(51)
(52)
(53)
(54)

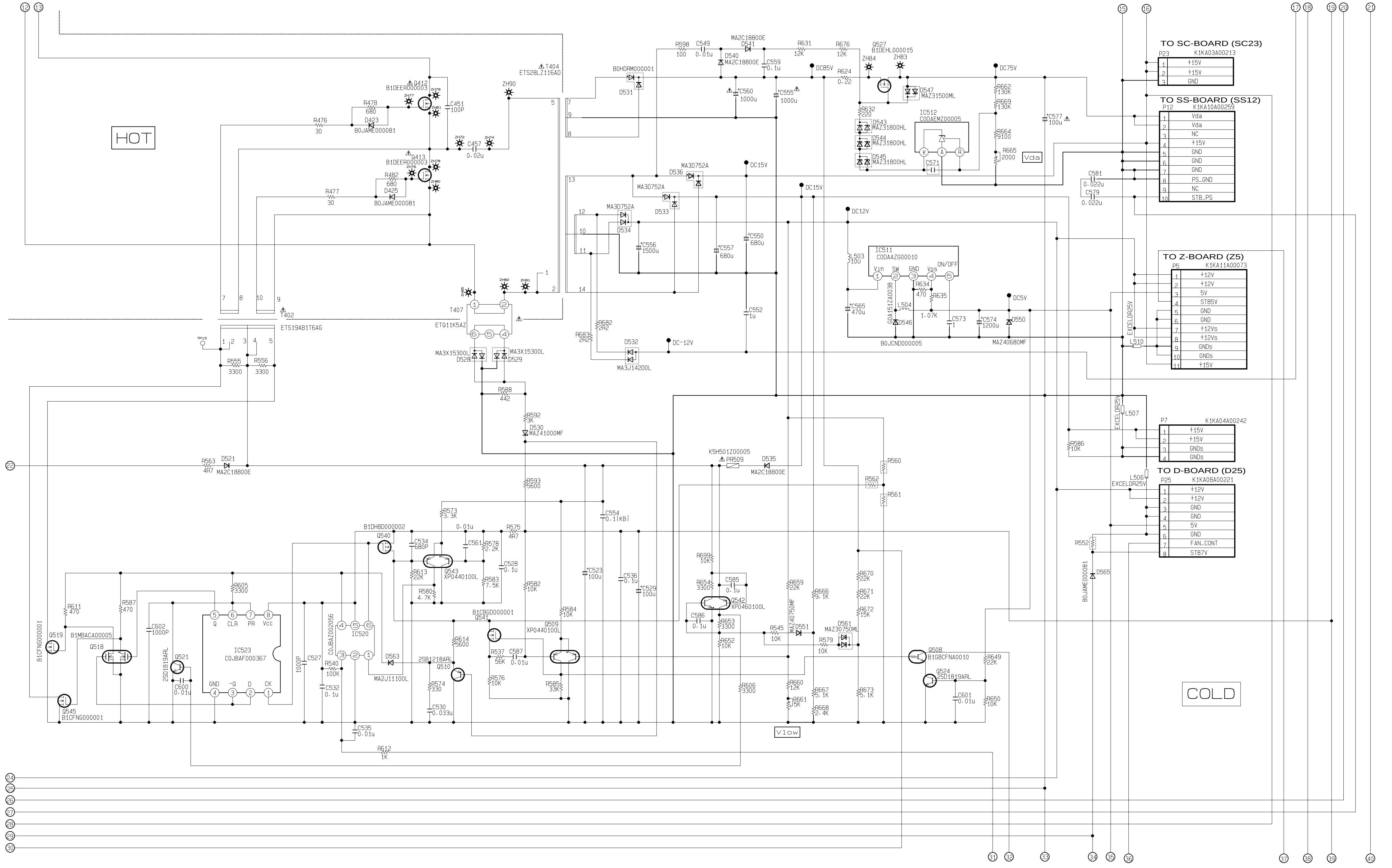
A
B
C
D
E

TH-42PHD6/TH-42PHW6
P-BOARD (3 of 6) Schematic Diagram

TH-42PHD6/TH-42PHW6
P-BOARD (3 of 6) and Schematic Diagram

1 2 3 4 5 6 7 8

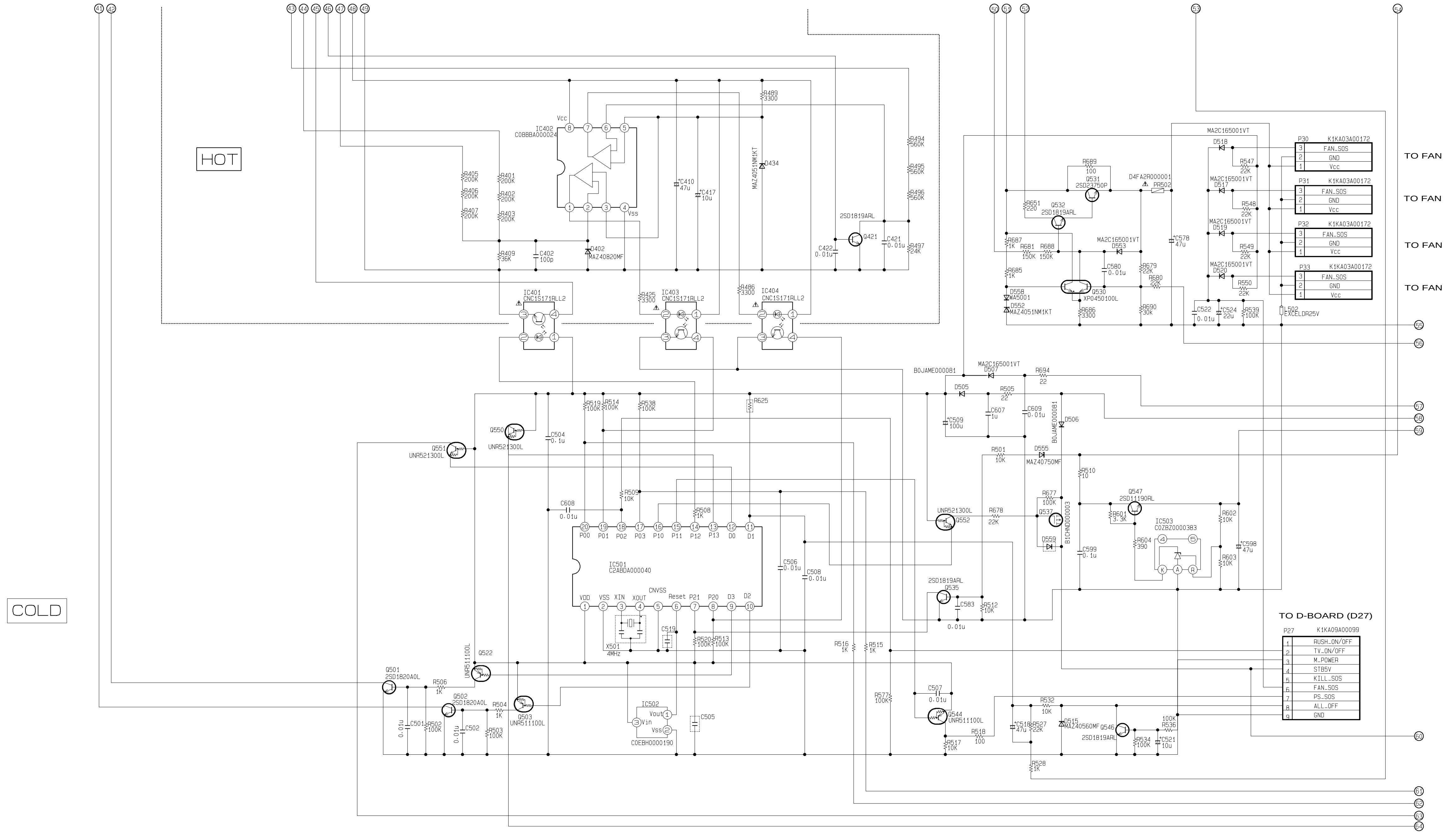
P-BOARD TNPA2889 (4/6)


HOT
COLD
TO SC-BOARD (SC23)
P23 K1KA03A00213
1 +15V
2 +15V
3 GND
TO SS-BOARD (SS12)
P12 K1KA10A00259
1 Vda
2 Vda
3 NC
4 +15V
5 GND
6 GND
7 GND
8 PS_GND
9 NC
10 STB_PS
TO Z-BOARD (Z5)
P5 K1KA11A00073
1 +12V
2 +12V
3 5V
4 STB5V
5 GND
6 GND
7 +12Vs
8 +12Vs
9 GNDs
10 GNDs
11 +15V
P7 K1KA04A00242
1 +15V
2 +15V
3 GNDs
4 GNDs
TO D-BOARD (D25)
P25 K1KA08A00221
1 +12V
2 +12V
3 GND
4 GND
5 5V
6 GND
7 FAN_CONT
8 STB7V
T404 ETS28LZ116AD
T402 ETS19AB1T6AG
T407 ETQ11K5AZ
IC511 C0DAAZG00010
IC512 C0DAEMZ00005
IC520 C0JBAZ002056
IC523 C0JBAF000367
Q412 B1DEER000003
Q413 B1DEER000003
Q527 B1DEHL000015
Q540 B1DHBD000002
Q543 XP0440100L
Q542 XP0460100L
Q509 XP0440100L
Q541 B1CBGD000001
Q510 2SB1218ARL
Q519 B1CFNG000001
Q518 B1MBACA00005
Q521 2SD1819ARL
Q545 B1CFNG000001
Q508 B1GBCFNA0010
Q524 2SD1819ARL
DC85V
DC75V
DC15V
DC12V
DC5V
DC-12V
Vda
Vlow
ZH90
ZH84
ZH83
K5H501Z00005
PR509
L503 10U
L504
L506 EXCELDR25V
L507 EXCELDR25V
L510 EXCELDR25V
D521 MA2C18800E
D535 MA2C18800E
D530 MAZ41000MF
D528 MA3X15300L
D529 MA3X15300L
D531 B0HDRM000001
D532 MA3J142D0L
D533 MA3D752A
D534 MA3D752A
D536 MA3D752A
D540 MA2C18800E
D541 MA2C18800E
D543 MAZ31800HL
D544 MAZ31800HL
D545 MAZ31800HL
D546 B0JCND000005
D547 MAZ31500ML
D550 MAZ40680MF
D551 MAZ40750MF
D561 MAZ30750ML
D563 MA2J11100L
D565 B0JAME000081
D423 B0JAME000081
D425 B0JAME000081
R476 30
R477 30
R478 680
R482 680
R555 3300
R556 3300
R563 4R7
R588 442
R592 3K
R593 5600
R598 100
R631 12K
R676 12K
R624 0.22
R632 220
R662 130K
R669 130K
R664 9100
R665 2000
R634 470
R635 1.07K
R573 3.3K
R575 4R7
R578 2.2K
R583 7.5K
R582 10K
R613 22K
R580 4.7K
R605 3300
R587 470
R511 470
R540 100K
R614 5600
R537 56K
R576 10K
R574 330
R585 33K
R584 10K
R612 1K
R699 10K
R654 3300
R653 3300
R652 10K
R545 10K
R579 10K
R659 22K
R666 9.1K
R660 12K
R661 15K
R667 5.1K
R668 2.4K
R670 22K
R671 22K
R672 15K
R673 5.1K
R606 3300
R649 22K
R650 10K
R586 10K
R552
R560
R561
R562
R682 2R2
R683 2R2
C451 100P
C457 0.02u
C549 0.01u
C559 0.1u
C560 1000u
C555 1000u
C577 100u
C581 0.022u
C579 0.022u
C571
C556 1500u
C557 680u
C550 680u
C552 1u
C565 470u
C573 1
C574 1200u
C554 0.1(KB)
C534 680P
C561 0.01u
C528 0.1u
C523 100u
C536 0.1u
C529 100u
C602 1000P
C600 0.01u
C527 1000P
C532 0.1u
C535 0.01u
C530 0.033u
C587 0.01u
C586 0.1u
C585 0.1u
C601 0.01u
8
9
10
11
12
13
14
15

TH-42PHD6/TH-42PHW6
P-BOARD (4 of 6) Schematic Diagram

TH-42PHD6/TH-42PHW6
P-BOARD (4 of 6) Schematic Diagram

⚠ P-BOARD TNPA2889 (5/6)

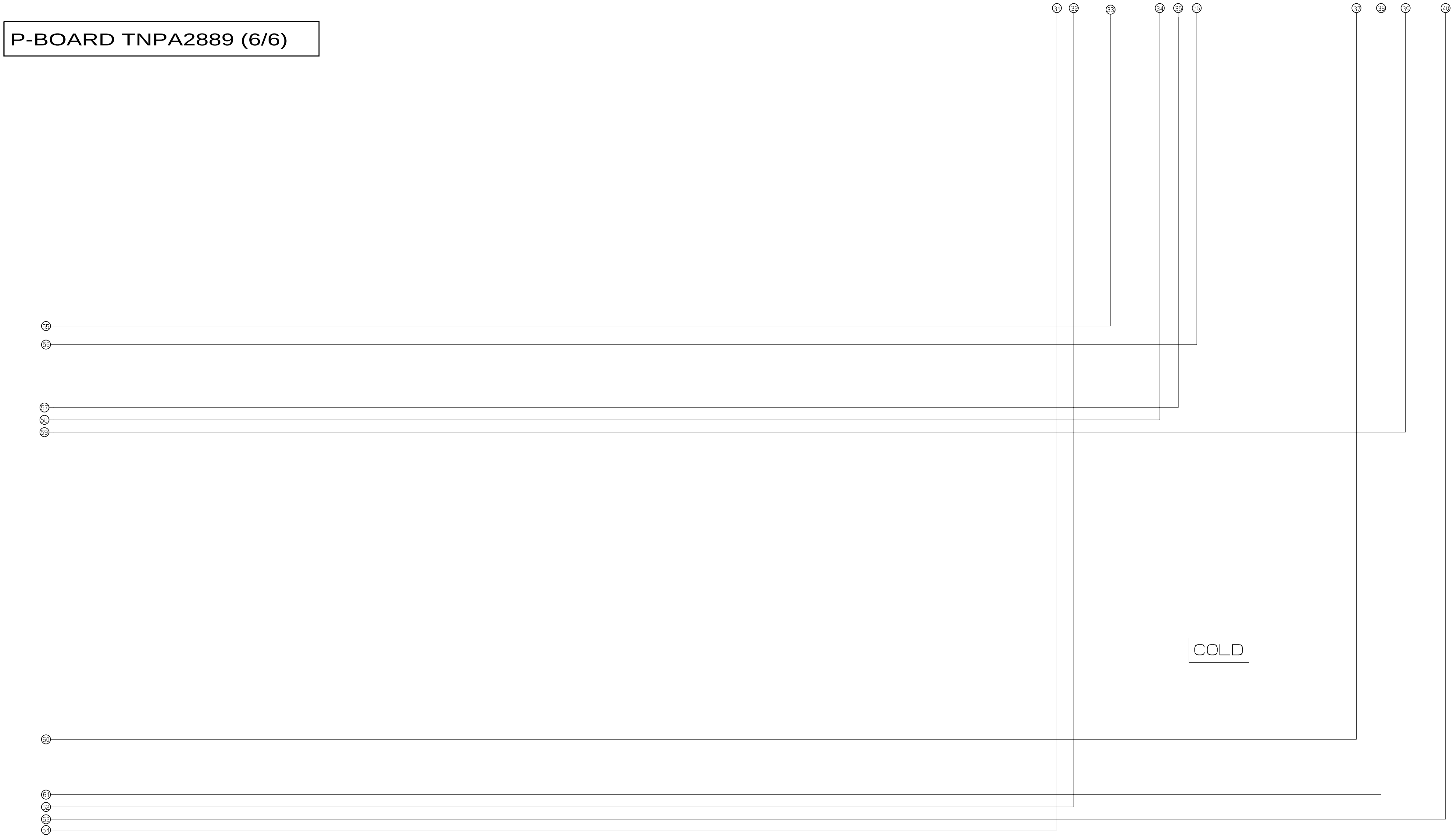


HOT
COLD
IC402
C0BBBA000024
IC401
CNC1S171RLL2
IC403
CNC1S171RLL2
IC404
CNC1S171RLL2
IC501
C2ABDA000040
IC502
C0EBH0000190
IC503
C0ZBZ0000383
X501
4MHz
Q421
2SD1819ARL
Q501
2SD1820A0L
Q502
2SD1820A0L
Q503
UNR511100L
Q522
UNR511100L
Q550
UNR521300L
Q551
UNR521300L
Q552
UNR521300L
Q530
XP0450100L
Q531
2SD2375OP
Q532
2SD1819ARL
Q535
2SD1819ARL
Q537
Q544
UNR511100L
Q546
2SD1819ARL
Q547
2SD1119ORL
D402
MAZ40820MF
D434
MAZ4051NM1KT
PR502
D4FA2R000001
L502
EXCELDR25V
P30
K1KA03A00172
P31
K1KA03A00172
P32
K1KA03A00172
P33
K1KA03A00172
FAN_SOS
GND
Vcc
TO FAN
TO FAN
TO FAN
TO FAN
TO D-BOARD (D27)
P27
K1KA09A00099
RUSH_ON/OFF
TV_ON/OFF
M_POWER
STB5V
KILL_SOS
FAN_SOS
PS_SOS
ALL_OFF
GND
VDD
VSS
XIN
XOUT
CNVSS
Reset
P21
P20
D3
D2
P00
P01
P02
P03
P10
P11
P12
P13
D0
D1
Vout
Vin
Vss

TH-42PHD6/TH-42PHW6
P-BOARD (5 of 6) Schematic Diagram

TH-42PHD6/TH-42PHW6
P-BOARD (5 of 6) and Schematic Diagram

P-BOARD TNPA2889 (6/6)


31
32
33
34
35
36
37
38
39
40
55
56
57
58
59
COLD
60
61
62
63
64

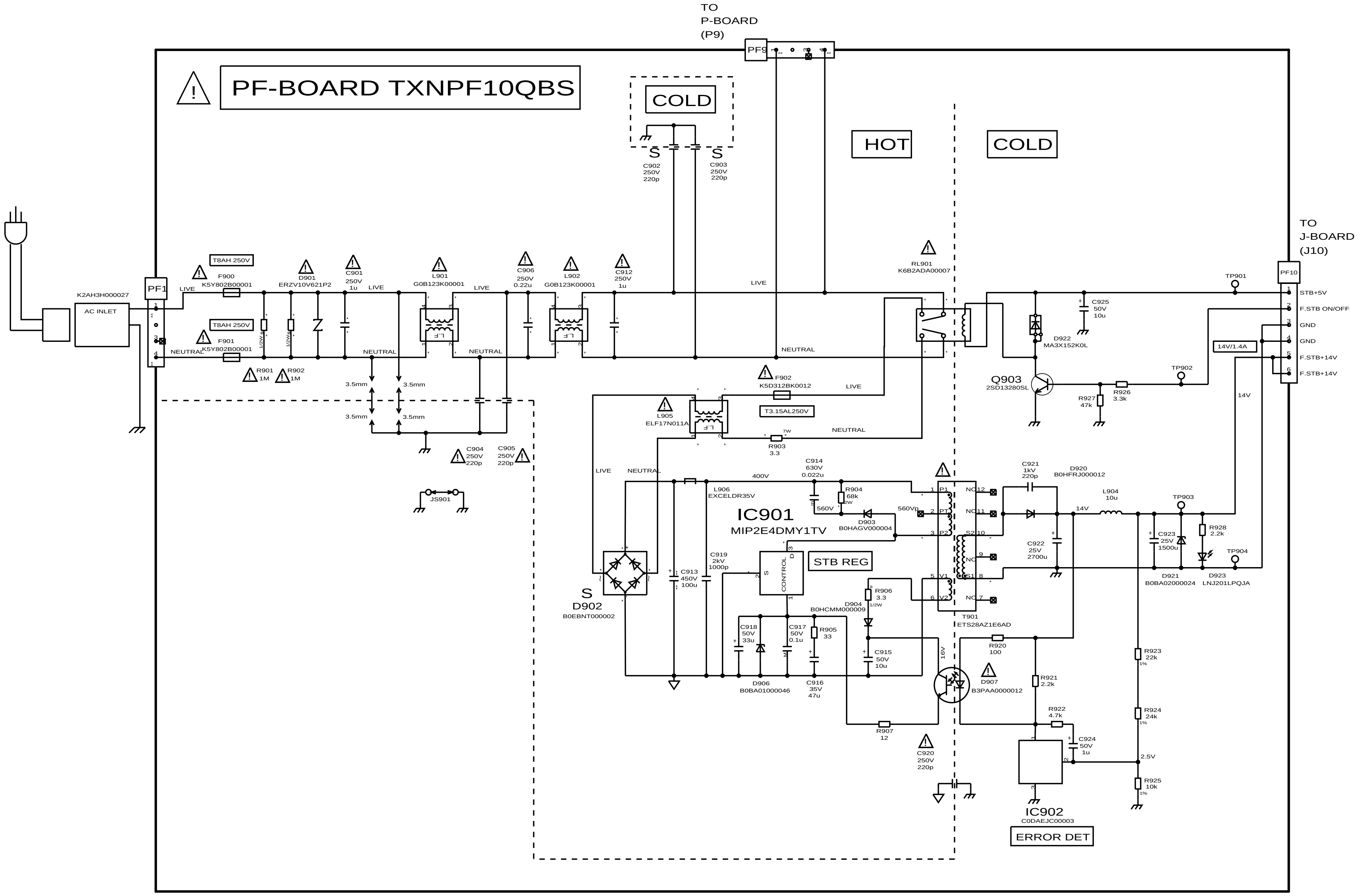
A

B

C

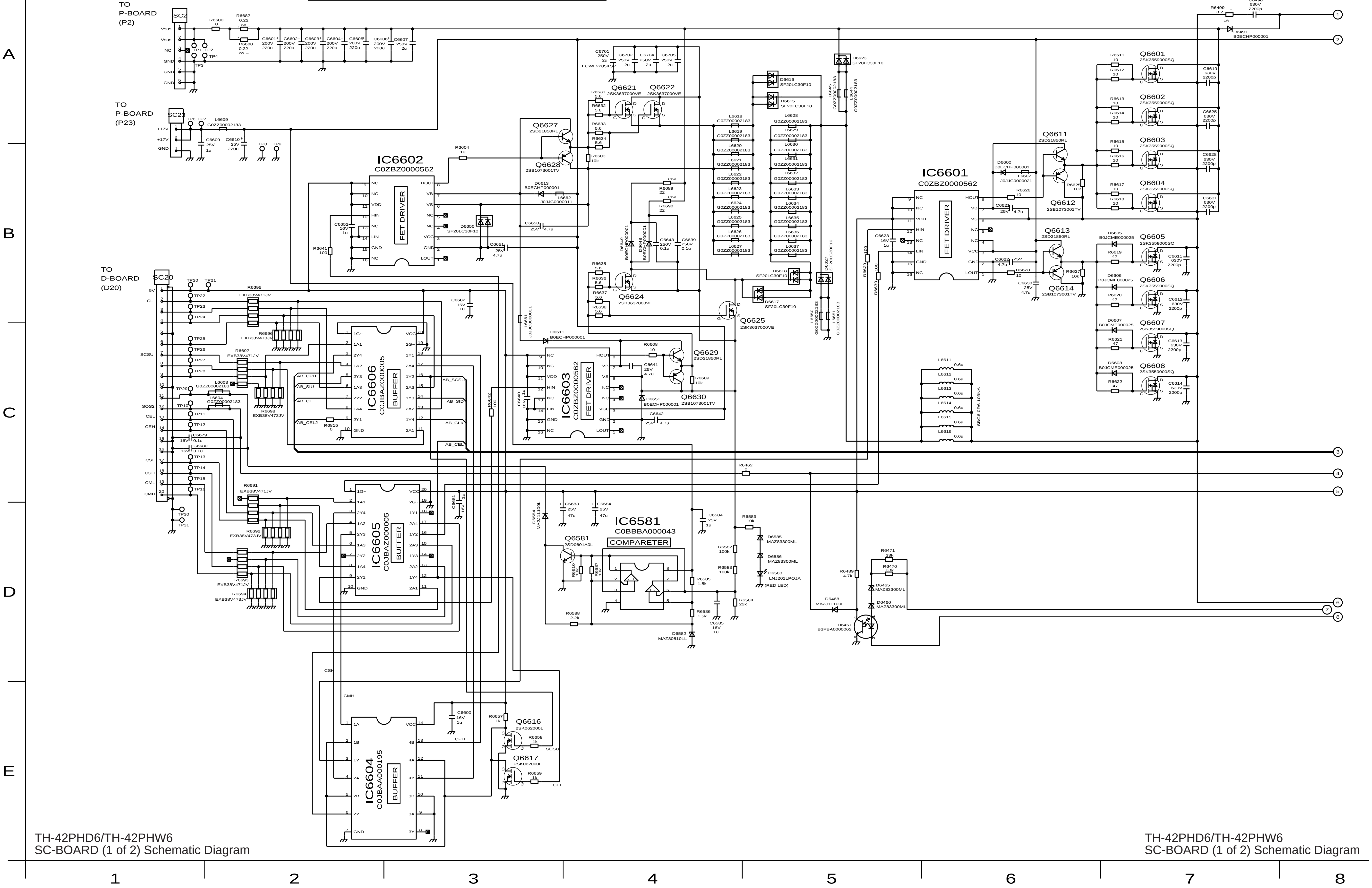
D

E


TO
P-BOARD
(P9)
PF9
PF-BOARD TXNPF10QBS
COLD
HOT
COLD
C902
250V
220p
C903
250V
220p
TO
J-BOARD
(J10)
PF10
STB+5V
F.STB ON/OFF
GND
GND
F.STB+14V
F.STB+14V
K2AH3H000027
AC INLET
PF1
LIVE
NEUTRAL
T8AH 250V
F900
K5Y802B00001
T8AH 250V
F901
K5Y802B00001
R901
1M
R902
1M
D901
ERZV10V621P2
C901
250V
1u
L901
G0B123K00001
C906
250V
0.22u
L902
G0B123K00001
C912
250V
1u
RL901
K6B2ADA00007
C925
50V
10u
D922
MA3X152K0L
TP901
TP902
14V/1.4A
Q903
2SD1328OSL
R927
47k
R926
3.3k
14V
3.5mm
3.5mm
3.5mm
3.5mm
C904
250V
220p
C905
250V
220p
JS901
L905
ELF17N011A
F902
K5D312BK0012
T3.15AL250V
R903
3.3
7W
C914
630V
0.022u
400V
R904
68k
560V
560V
D903
B0HAGV000004
L906
EXCELDR35V
IC901
MIP2E4DMY1TV
STB REG
CONTROL
C919
2kV
1000p
C913
450V
100u
D902
B0EBNT000002
R906
3.3
1/2W
D904
B0HCMM000009
C918
50V
33u
C917
50V
0.1u
R905
33
C915
50V
10u
C916
35V
47u
D906
B0BA01000046
R907
12
16V
D907
B3PAA0000012
C920
250V
220p
T901
ETS28AZ1E6AD
C921
1kV
220p
D920
B0HFRJ000012
L904
10u
TP903
C923
25V
1500u
C922
25V
2700u
R928
2.2k
TP904
D921
B0BA02000024
D923
LNJ201LPQJA
R920
100
R921
2.2k
R922
4.7k
C924
50V
1u
R923
22k
R924
24k
R925
10k
2.5V
IC902
C0DAEJC00003
ERROR DET

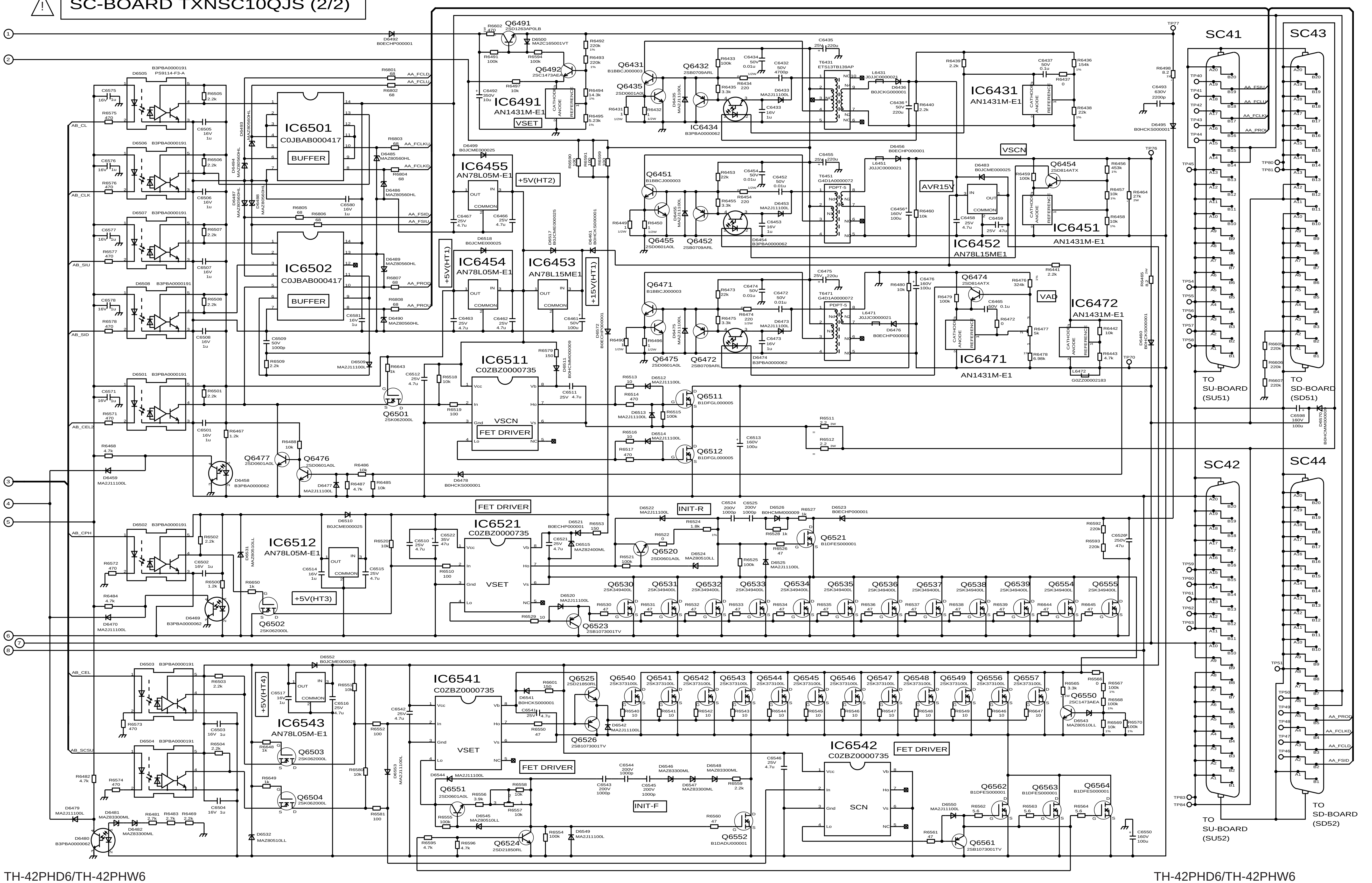
1 2 3 4 5 6 7 8

SC-BOARD TXNSC10QJS (1/2)



TO P-BOARD (P2)
SC2
Vsus
Vsus
NC
GND
GND
GND
TP1
TP2
TP3
TP4
R6600 0
R6687 0.22
R6688 0.22
C6601 200V 220u
C6602 200V 220u
C6603 200V 220u
C6604 200V 220u
C6605 200V 220u
C6606 200V 220u
C6607 250V 2u
TO P-BOARD (P23)
SC23
+17V
+17V
GND
TP6
TP7
L6609 G0ZZ00002183
C6609 25V 1u
C6610 25V 220u
TP8
TP9
IC6602
C0ZBZ0000562
FET DRIVER
IC6601
C0ZBZ0000562
FET DRIVER
IC6603
C0ZBZ0000562
FET DRIVER
IC6606
C0JBAZ000005
BUFFER
IC6605
C0JBAZ000005
BUFFER
IC6604
C0JBAA000195
BUFFER
IC6581
C0BBBA000043
COMPARETER
Q6621 2SK3637000VE
Q6622 2SK3637000VE
Q6627 2SD2185ORL
Q6628 2SB1073001TV
Q6624 2SK3637000VE
Q6625 2SK3637000VE
Q6629 2SD2185ORL
Q6630 2SB1073001TV
Q6611 2SD2185ORL
Q6612 2SB1073001TV
Q6613 2SD2185ORL
Q6614 2SB1073001TV
Q6601 2SK3559000SQ
Q6602 2SK3559000SQ
Q6603 2SK3559000SQ
Q6604 2SK3559000SQ
Q6605 2SK3559000SQ
Q6606 2SK3559000SQ
Q6607 2SK3559000SQ
Q6608 2SK3559000SQ
Q6581 2SD0601A0L
Q6616 2SK062000L
Q6617 2SK062000L
D6623 SF20LC30F10
D6616 SF20LC30F10
D6615 SF20LC30F10
D6618 SF20LC30F10
D6617 SF20LC30F10
D6627 SF20LC30F10
D6650 SF20LC30F10
D6613 B0ECHP000001
D6611 B0ECHP000001
D6600 B0ECHP000001
D6491 B0ECHP000001
D6651 B0ECHP000001
D6605 B0JCME000025
D6606 B0JCME000025
D6607 B0JCME000025
D6608 B0JCME000025
D6585 MAZ83300ML
D6586 MAZ83300ML
D6583 LNJ201LPQJA (RED LED)
D6582 MAZ80510LL
D6584 MAZ11100L
D6468 MAZ11100L
D6465 MAZ83300ML
D6466 MAZ83300ML
D6467 B3PBA0000062
C6701 250V 2u ECWF2205KS
C6702 250V 2u
C6704 250V 2u
C6705 250V 2u
L6618–L6637 G0ZZ00002183
L6611–L6616 0.6u
SBC6-0R6-103NA
R6499 8.2 1W
C6490 630V 2200p
TO D-BOARD (D20)
SC20
5V
CL
SCSU
SOS2
CEL
CEH
CSL
CSH
CML
CMH
TP20
TP21
TP22
TP23
TP24
TP25
TP26
TP27
TP28
TP29
TP10
TP11
TP12
TP13
TP14
TP15
TP16
TP30
TP31
R6695 EXB38V471JV
R6696 EXB38V473JV
R6697 EXB38V471JV
R6698 EXB38V473JV
R6691 EXB38V471JV
R6692 EXB38V473JV
R6693 EXB38V471JV
R6694 EXB38V473JV
L6603 G0ZZ00002183
L6604 G0ZZ00002183
C6679 16V 0.1u
C6680 16V 0.1u
AB_CPH
AB_SIU
AB_CL
AB_CEL2
AB_SCSU
AB_SID
AB_CLK
AB_CEL
CSH
CMH
CPH
SCSU
CEL
R6462 0
R6489 4.7k
R6471 33k
R6470 33k
①
②
③
④
⑤
⑥
⑦
⑧
A
B
C
D
E
1
2
3
4
5
6
7
8

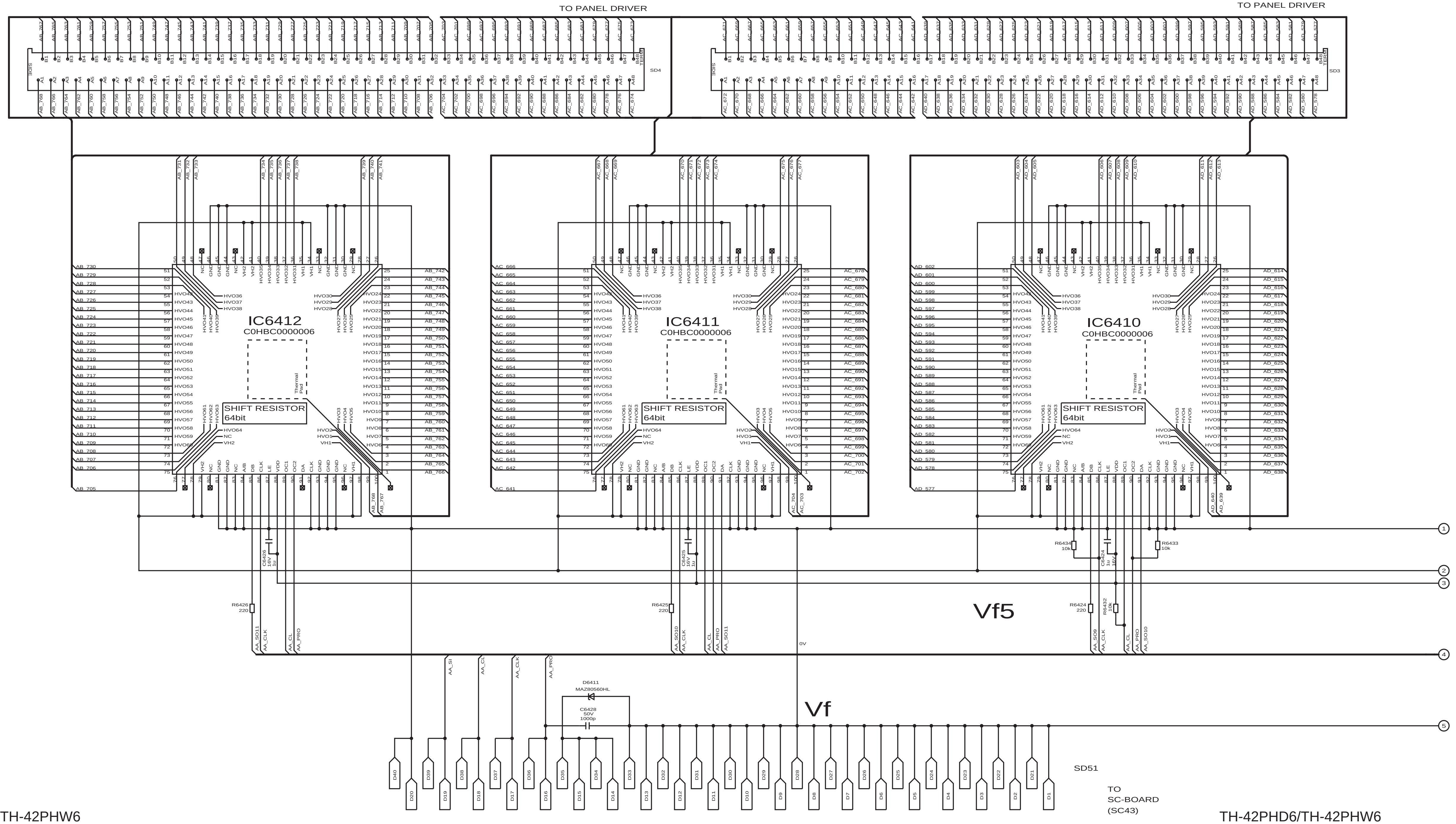
SC-BOARD TXNSC10QJS (2/2)


IC6501
C0JBAB000417
BUFFER
IC6502
C0JBAB000417
BUFFER
IC6491
AN1431M-E1
VSET
IC6455
AN78L05M-E1
+5V(HT2)
IC6454
AN78L05M-E1
+5V(HT1)
IC6453
AN78L15ME1
+15V(HT1)
IC6431
AN1431M-E1
IC6451
AN1431M-E1
VSCN
AVR15V
IC6452
AN78L15ME1
IC6472
AN1431M-E1
VAD
IC6471
AN1431M-E1
IC6511
C0ZBZ0000735
VSCN
FET DRIVER
IC6512
AN78L05M-E1
+5V(HT3)
IC6521
C0ZBZ0000735
VSET
INIT-R
IC6541
C0ZBZ0000735
VSET
IC6543
AN78L05M-E1
+5V(HT4)
FET DRIVER
INIT-F
IC6542
C0ZBZ0000735
SCN
FET DRIVER
SC41
SC43
SC42
SC44
TO SU-BOARD (SU51)
TO SD-BOARD (SD51)
TO SU-BOARD (SU52)
TO SD-BOARD (SD52)
T6431
ETS13TB139AP
T6451
G4D1A0000072
T6471
G4D1A0000072
Q6491
Q6492
Q6431
Q6432
Q6435
IC6434
Q6451
Q6452
Q6455
Q6454
Q6471
Q6472
Q6475
Q6474
Q6477
Q6476
Q6501
Q6502
Q6511
Q6512
Q6520
Q6521
Q6523
Q6530
Q6531
Q6532
Q6533
Q6534
Q6535
Q6536
Q6537
Q6538
Q6539
Q6554
Q6555
Q6525
Q6526
Q6540
Q6541
Q6542
Q6543
Q6544
Q6545
Q6546
Q6547
Q6548
Q6549
Q6556
Q6557
Q6550
Q6503
Q6504
Q6551
Q6524
Q6552
Q6562
Q6563
Q6564
Q6561
AB_CL
AB_CLK
AB_SIU
AB_SID
AB_CEL2
AB_CPH
AB_CEL
AB_SCSU
AA_FCLD
AA_FCLU
AA_FCLKU
AA_FCLKD
AA_FSID
AA_FSIU
AA_PROD
AA_PROU
AA_PROD
AA_FCLKD
AA_FCLD
AA_FSID
1
2
3
4
5
6
7
8
8
9
10
11
12
13
14
15

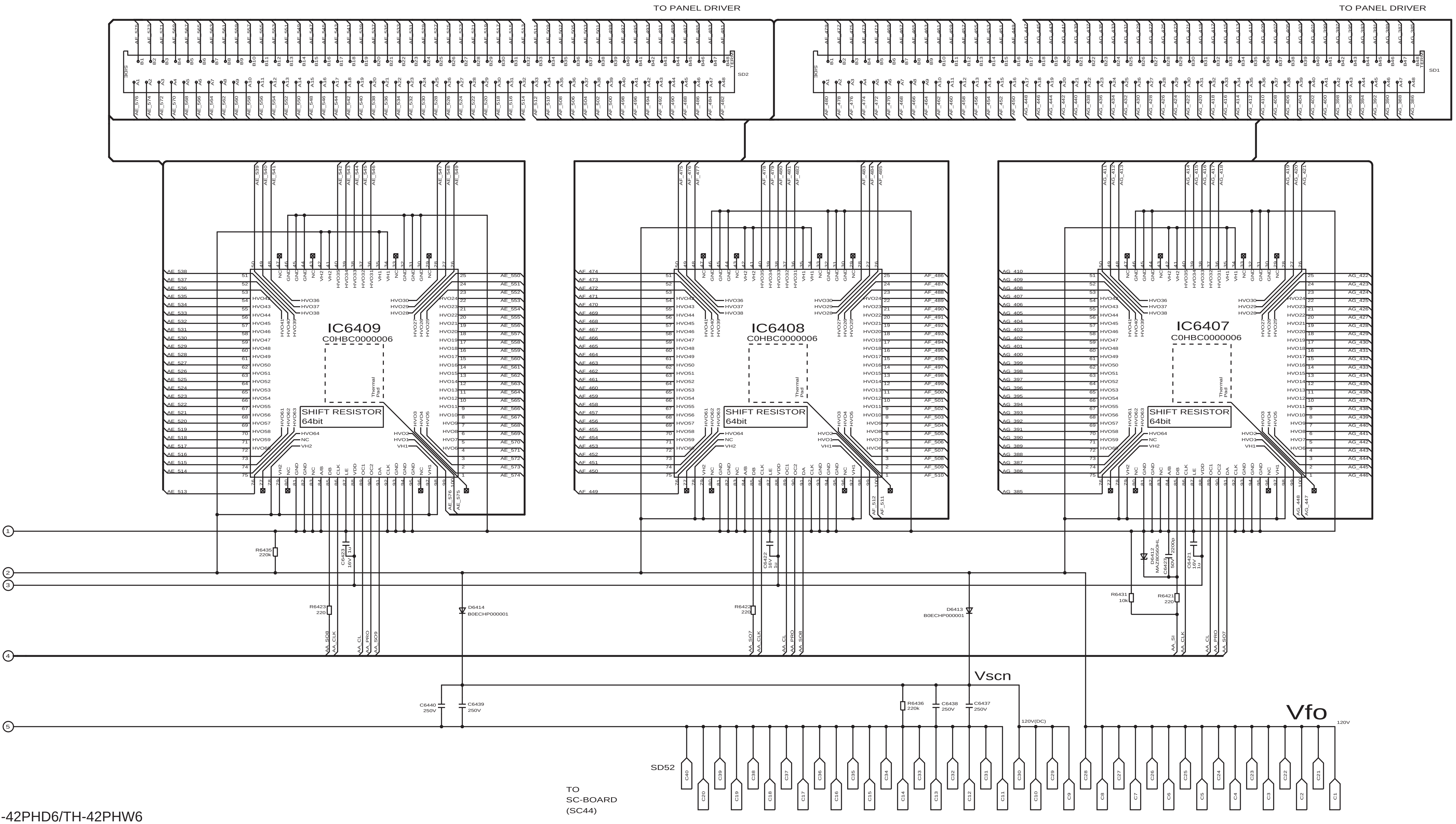
TH-42PHD6/TH-42PHW6
SC-BOARD (2 of 2) Schematic Diagram

SD-BOARD TNPA2910 (1/2)

DOWN

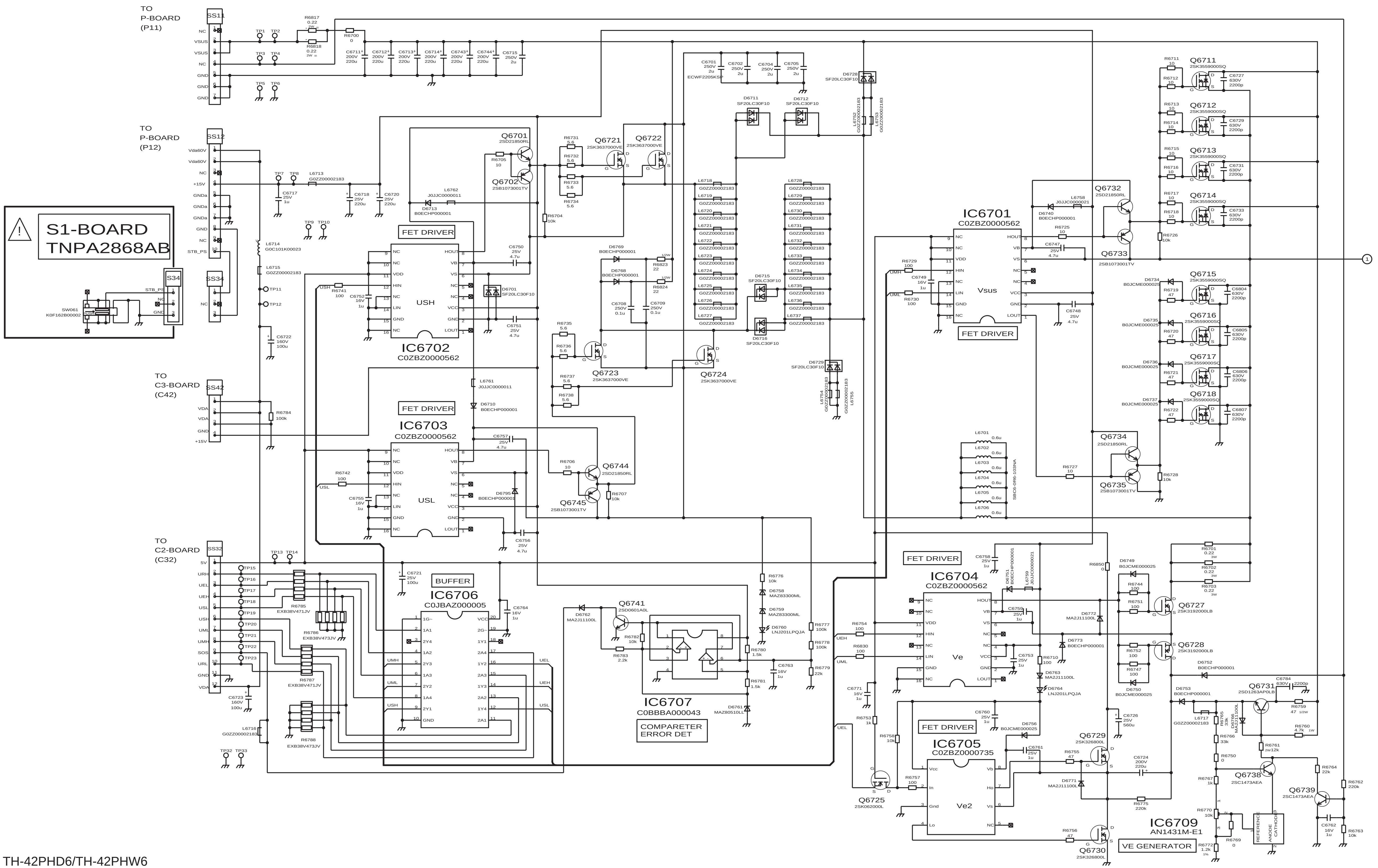

TO PANEL DRIVER
SD4
TO PANEL DRIVER
SD3
IC6412
C0HBC0000006
IC6411
C0HBC0000006
IC6410
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
C6426 10V 1u
C6425 10V 1u
C6424 1u 10V
R6426 220
R6425 220
R6424 220
R6434 10k
R6433 10k
R6432 10k
AA_SO11
AA_CLK
AA_CL
AA_PRO
AA_SO10
AA_SO9
AA_SI
0V
Vf5
Vf
D6411 MAZ80560HL
C6428 50V 1000p
SD51
TO SC-BOARD (SC43)
D40
D39
D38
D37
D36
D35
D34
D33
D32
D31
D30
D29
D28
D27
D26
D25
D24
D23
D22
D21
D20
D19
D18
D17
D16
D15
D14
D13
D12
D11
D10
D9
D8
D7
D6
D5
D4
D3
D2
D1
1
2
3
4
5

⚠ SD-BOARD TNPA2910 (2/2)



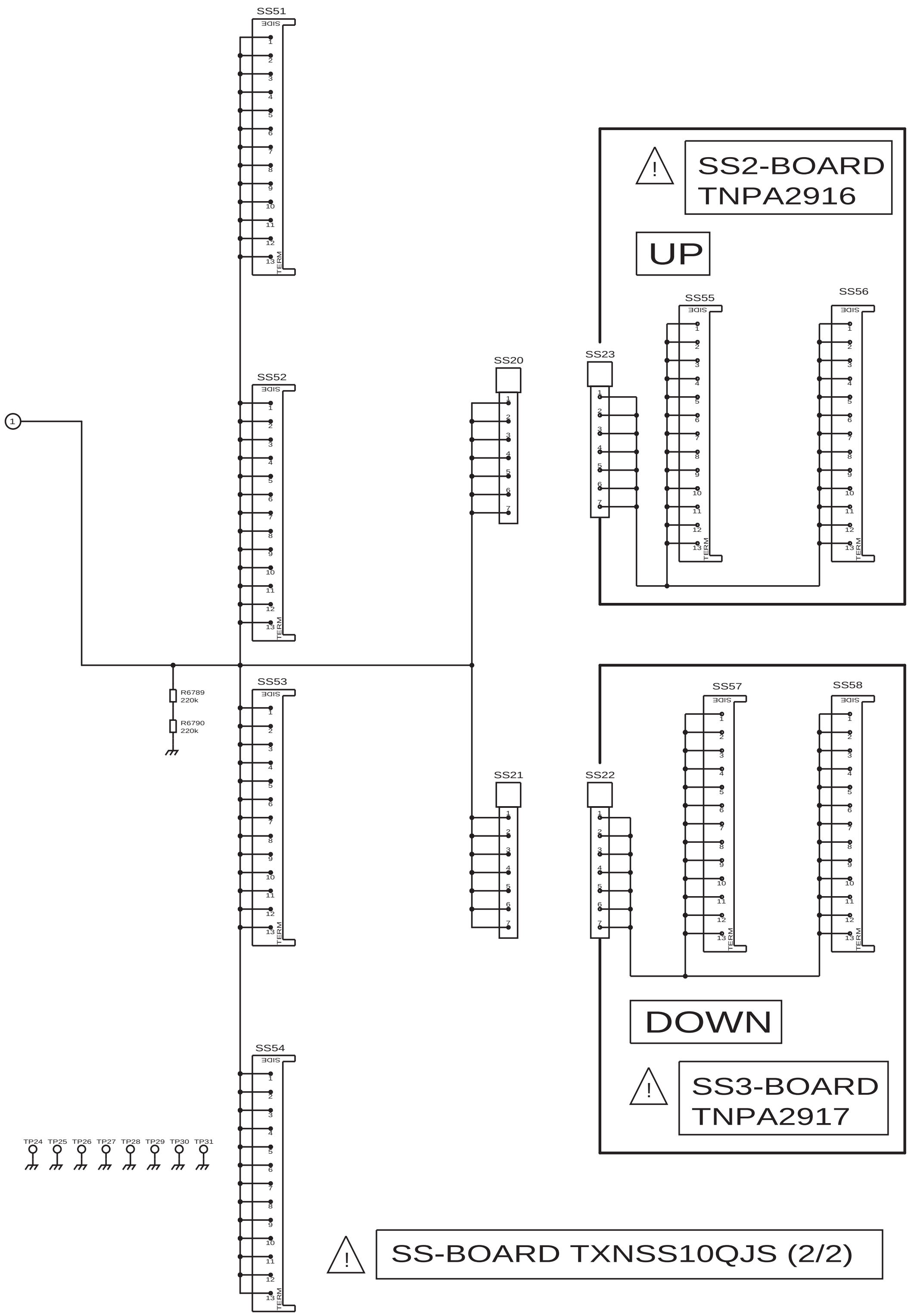
TO PANEL DRIVER
SD2
TO PANEL DRIVER
SD1
IC6409
C0HBC0000006
Thermal Pad
SHIFT RESISTOR
64bit
IC6408
C0HBC0000006
IC6407
C0HBC0000006
R6435 220k
C6423 16V 1u
R6423 220
D6414 B0ECHP000001
R6422 220
C6422 16V 1u
D6413 B0ECHP000001
D6412 MA2B0560HL
C6424 50V 2200p
C6421 16V 1u
R6431 10k
R6421 220
Vscn
C6440 250V
C6439 250V
R6436 220k
C6438 250V
C6437 250V
120V(DC)
Vfo
120V
SD52
TO SC-BOARD (SC44)
①
②
③
④
⑤

SS-BOARD TXNSS10QJS (1/2)

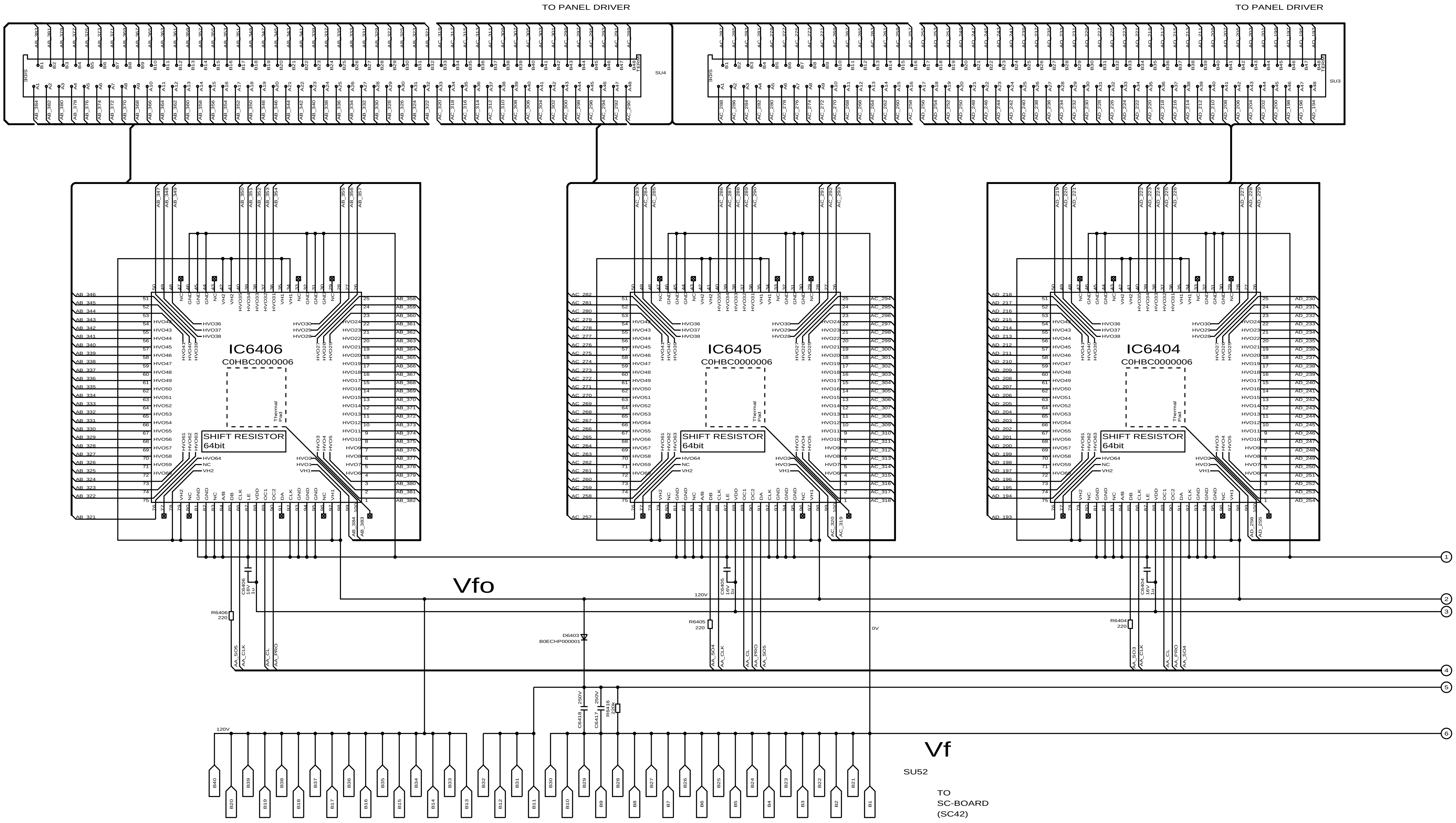

TO P-BOARD (P11)
SS11
TO P-BOARD (P12)
SS12
TO C3-BOARD (C42)
SS42
TO C2-BOARD (C32)
SS32
S1-BOARD
TNPA2868AB
S34
SS34
SW061
K0F162B00002
FET DRIVER
IC6702
C0ZBZ0000562
USH
IC6703
C0ZBZ0000562
USL
BUFFER
IC6706
C0JBAZ000005
IC6707
C0BBBA000043
COMPARETER ERROR DET
IC6701
C0ZBZ0000562
Vsus
IC6704
C0ZBZ0000562
Ve
IC6705
C0ZBZ0000735
Ve2
IC6709
AN1431M-E1
VE GENERATOR
Q6701
2SD21850RL
Q6702
2SB1073001TV
Q6721
2SK3637000VE
Q6722
2SK3637000VE
Q6723
2SK3637000VE
Q6724
2SK3637000VE
Q6744
2SD21850RL
Q6745
2SB1073001TV
Q6741
2SD0601A0L
Q6711
Q6712
Q6713
Q6714
Q6715
Q6716
Q6717
Q6718
2SK3559000SQ
Q6732
2SD21850RL
Q6733
2SB1073001TV
Q6734
2SD21850RL
Q6735
2SB1073001TV
Q6727
2SK3192000LB
Q6728
2SK3192000LB
Q6729
2SK326800L
Q6730
2SK326800L
Q6725
2SK062000L
Q6731
2SD1263AP0LB
Q6738
2SC1473AEA
Q6739
2SC1473AEA
A
B
C
D
E
1
2
3
4
5
6
7
8

TH-42PHD6/TH-42PHW6
SS-BOARD (1 of 2) and S1-BOARD Schematic Diagram

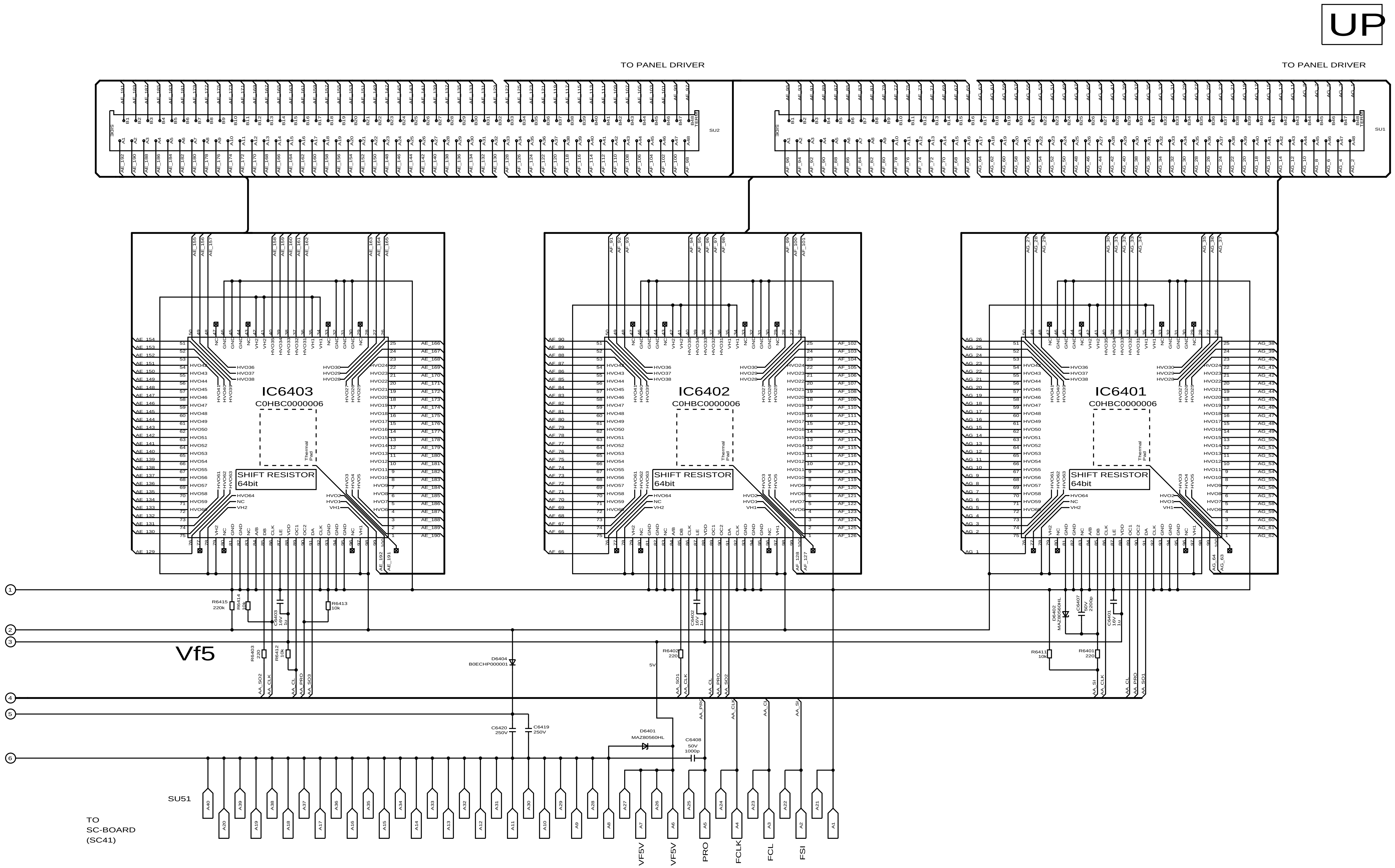
TH-42PHD6/TH-42PHW6 SS-BOARD (1 of 2) and S1-BOARD Schematic Diagram


SS51
SS52
SS53
SS54
SIDE
TERM
1
R6789
220k
R6790
220k
TP24
TP25
TP26
TP27
TP28
TP29
TP30
TP31
SS20
SS21
SS23
SS22
SS2-BOARD
TNPA2916
UP
SS55
SS56
SS57
SS58
DOWN
SS3-BOARD
TNPA2917
SS-BOARD TXNSS10QJS (2/2)

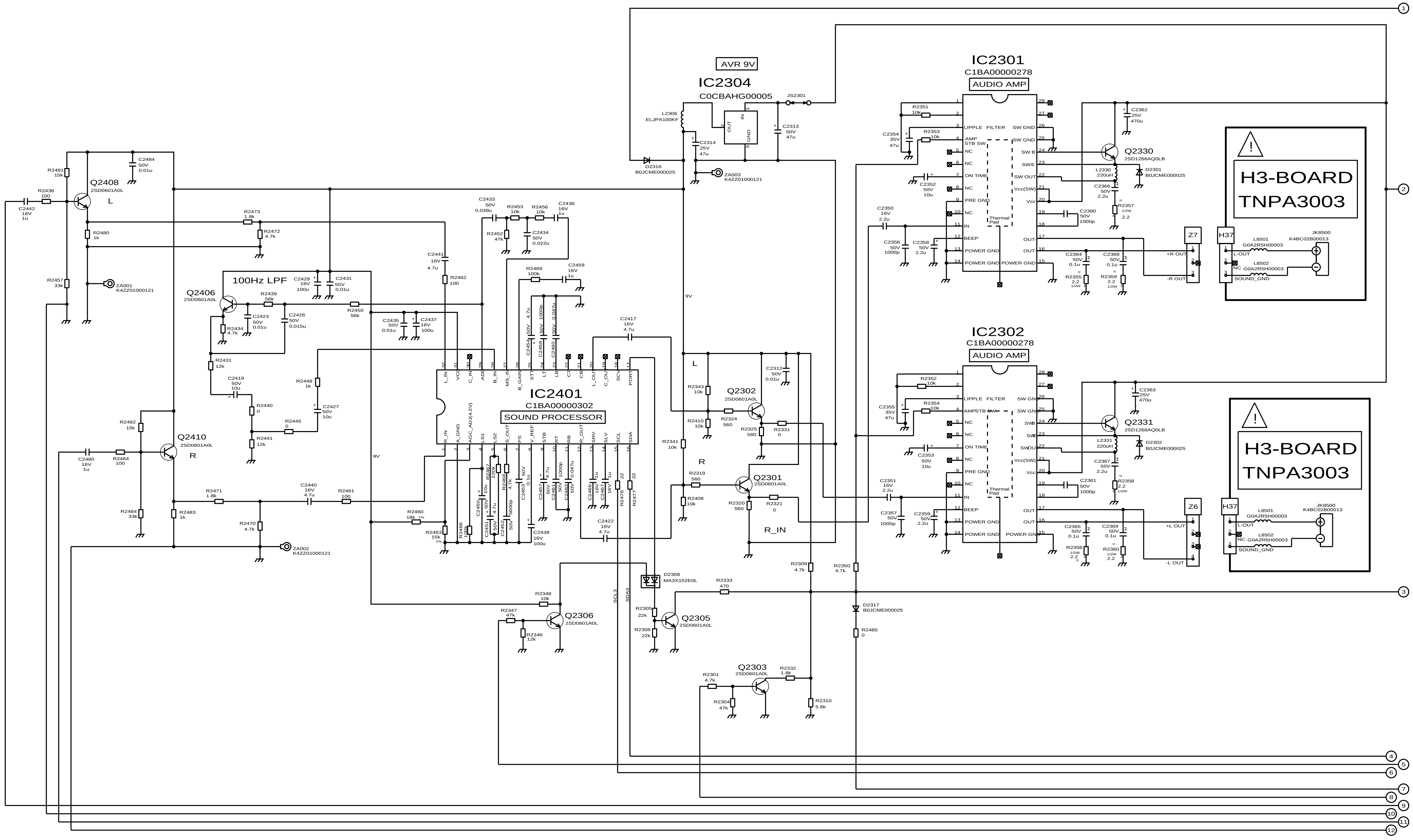
SU-BOARD TNPA2909 (1/2)


TO PANEL DRIVER
TO PANEL DRIVER
SU4
SU3
IC6406
C0HBC0000006
IC6405
C0HBC0000006
IC6404
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
Vfo
Vf
120V
0V
C6406 16V 1u
C6405 16V 1u
C6404 16V 1u
R6406 220
R6405 220
R6404 220
D6403
B0ECHP000001
C6418 250V
C6417 250V
R6416 220k
AA_SO5
AA_CLK
AA_CL
AA_PRO
AA_SO4
AA_SO3
SU52
TO
SC-BOARD
(SC42)

⚠ SU-BOARD TNPA2909 (2/2)


UP
TO PANEL DRIVER
TO PANEL DRIVER
SU2
SU1
IC6403
C0HBC0000006
IC6402
C0HBC0000006
IC6401
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
Vf5
R6415 220k
R6414 10k
C6403 16V 1u
R6413 10k
R6403 220
R6412 10k
D6404 B0ECHP000001
R6402 220
C6402 16V 1u
D6402 MAZ80560HL
C6407 50V 2200p
C6401 16V 1u
R6411 10k
R6401 220
C6420 250V
C6419 250V
D6401 MAZ80560HL
C6408 50V 1000p
5V
AA_SO2
AA_CLK
AA_CL
AA_PRO
AA_SO3
AA_SO1
AA_SI
AA_PRO
AA_CLK
AA_CL
AA_SI
SU51
TO
SC-BOARD
(SC41)
VF5V
VF5V
PRO
FCLK
FCL
FSI
1
2
3
4
5
6

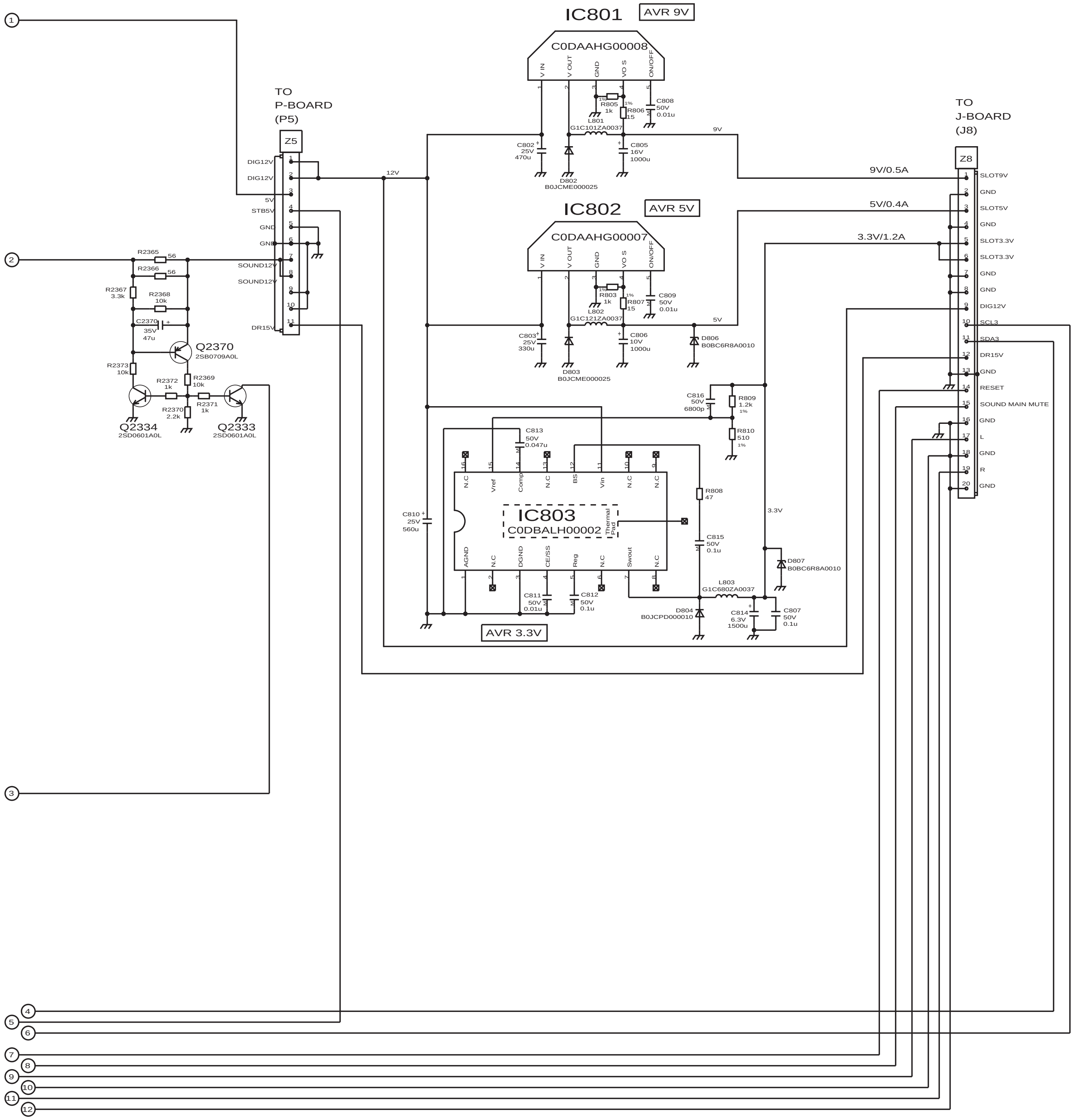
Z-BOARD TNPA2815 (1/2)


IC2301
C1BA00000278
AUDIO AMP
IC2302
C1BA00000278
AUDIO AMP
IC2304
C0CBAHG00005
AVR 9V
IC2401
C1BA00000302
SOUND PROCESSOR
100Hz LPF
H3-BOARD
TNPA3003
H3-BOARD
TNPA3003
Q2408
2SD0601A0L
Q2406
2SD0601A0L
Q2410
2SD0601A0L
Q2302
2SD0601A0L
Q2301
2SD0601A0L
Q2306
2SD0601A0L
Q2305
2SD0601A0L
Q2303
2SD0601A0L
Q2330
2SD1266AQ0LB
Q2331
2SD1266AQ0LB
D2316
B0JCME000025
D2301
B0JCME000025
D2302
B0JCME000025
D2317
B0JCME000025
D2308
MA3X152E0L
L2306
ELJPA100KF
L2330
220uH
L2331
220uH
JS2301
ZA001
K4ZZ01000121
ZA002
K4ZZ01000121
ZA003
K4ZZ01000121
L8501
G0A2R5H00003
L8502
G0A2R5H00003
JK8500
K4BC02B00013
Z7
Z6
H37
+R OUT
-R OUT
+L OUT
-L OUT
L-OUT
SOUND_GND
L
R
R_IN
9V
1
2
3
4
5
6
7
8
9
10
11
12

TH-42PHD6/TH-42PHW6
Z-BOARD (1 of 2) and H3-BOARD Schematic Diagram

TH-42PHD6/TH-42PHW6
Z-BOARD (1 of 2) and H3-BOARD Schematic Diagram

Z-BOARD TNPA2815 (2/2)



IC801
AVR 9V
C0DAAHG00008
V IN
V OUT
GND
VO S
ON/OFF
R805 1k
R806 15
C808 50V 0.01u
L801 G1C101ZA0037
C802 25V 470u
D802 B0JCME000025
C805 16V 1000u
9V
IC802
AVR 5V
C0DAAHG00007
R803 1k
R807 15
C809 50V 0.01u
L802 G1C121ZA0037
C803 25V 330u
D803 B0JCME000025
C806 10V 1000u
5V
D806 B0BC6R8A0010
TO P-BOARD (P5)
Z5
DIG12V
DIG12V
5V
STB5V
GND
GND
SOUND12V
SOUND12V
DR15V
12V
TO J-BOARD (J8)
Z8
9V/0.5A
5V/0.4A
3.3V/1.2A
SLOT9V
GND
SLOT5V
GND
SLOT3.3V
SLOT3.3V
GND
GND
DIG12V
SCL3
SDA3
DR15V
GND
RESET
SOUND MAIN MUTE
GND
L
GND
R
GND
R2365 56
R2366 56
R2367 3.3k
R2368 10k
C2370 35V 47u
Q2370 2SB0709A0L
R2373 10k
R2372 1k
R2369 10k
R2370 2.2k
R2371 1k
Q2334 2SD0601A0L
Q2333 2SD0601A0L
C816 50V 6800p
R809 1.2k
R810 510
C813 50V 0.047u
IC803
C0DBALH00002
N.C
Vref
Comp
BS
Vin
AGND
DGND
CE/SS
Reg
Swout
Thermal Pad
R808 47
C815 50V 0.1u
C810 25V 560u
3.3V
D807 B0BC6R8A0010
L803 G1C680ZA0037
D804 B0JCPD000010
C814 6.3V 1500u
C807 50V 0.1u
C811 50V 0.01u
C812 50V 0.1u
AVR 3.3V
1
2
3
4
5
6
7
8
9
10
11
12

14 Schematic Diagrams

14.1. Schematic Diagram Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

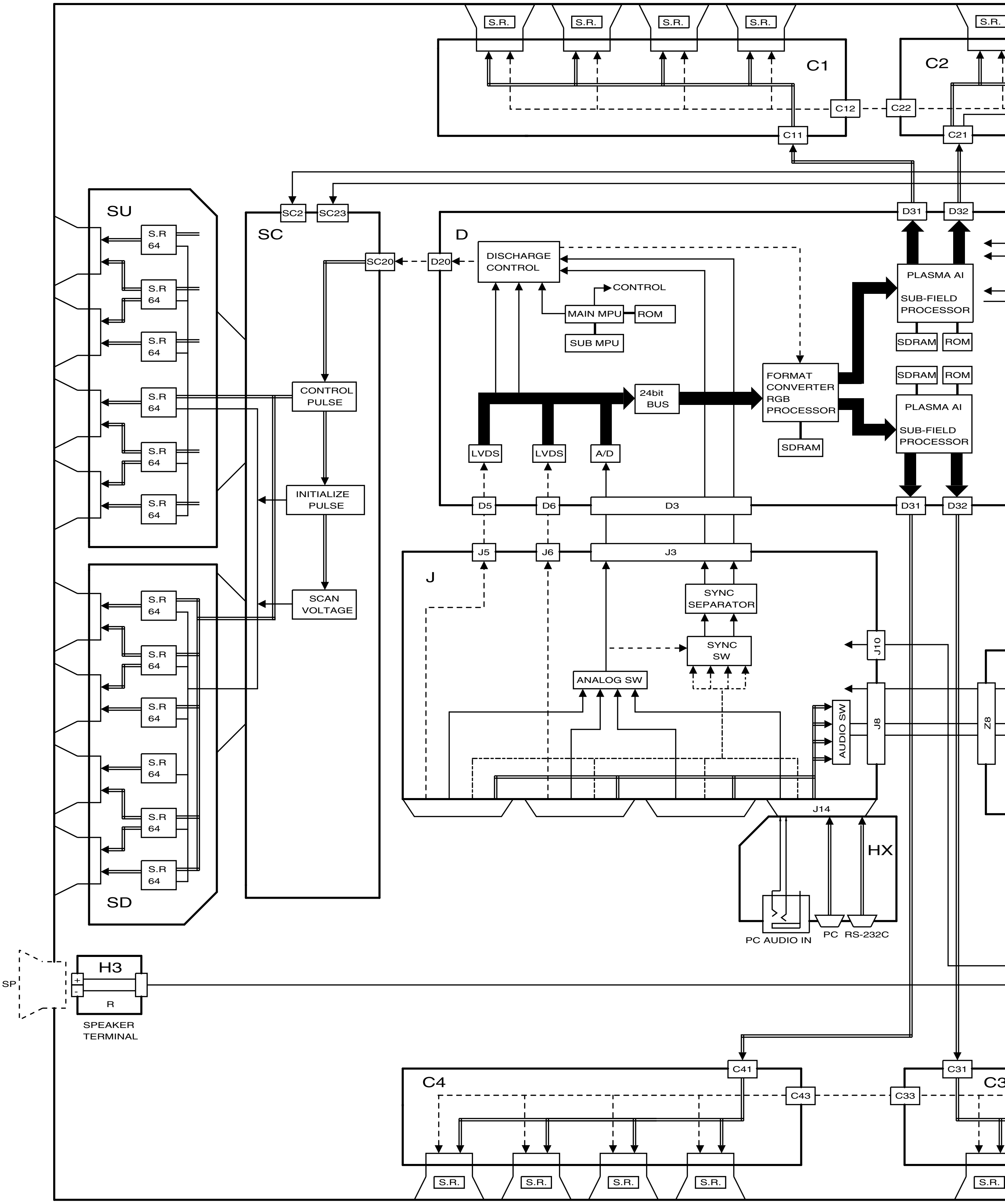
Notes:

1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [ ] (K=1,000, M=1,000,000).
   ○ : Nonflammable ⊠ : Metal Oxide
   △ : Solid ◎ : Metal Film
   ◪ : Wire Wound ⊗ : Fuse**:**
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is F, unless otherwise noted.
   ⊗ : Temperature Compensation +⊣⊢ : Electrolytic
   Ⓜ : Polyester NP⊣⊢ : Bipolar
   ⓜ : Metalized Polyester Ⓣ : Dipped Tantalum
   ⊠ : Polypropylene Ⓩ : Z-Type
3. Coil
   Unit of inductance is F, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source ....AC 120V, 50/60Hz
   (UY VERSION model)/
   AC220-240V, 50/60Hz
   (Except UY VERSION)
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

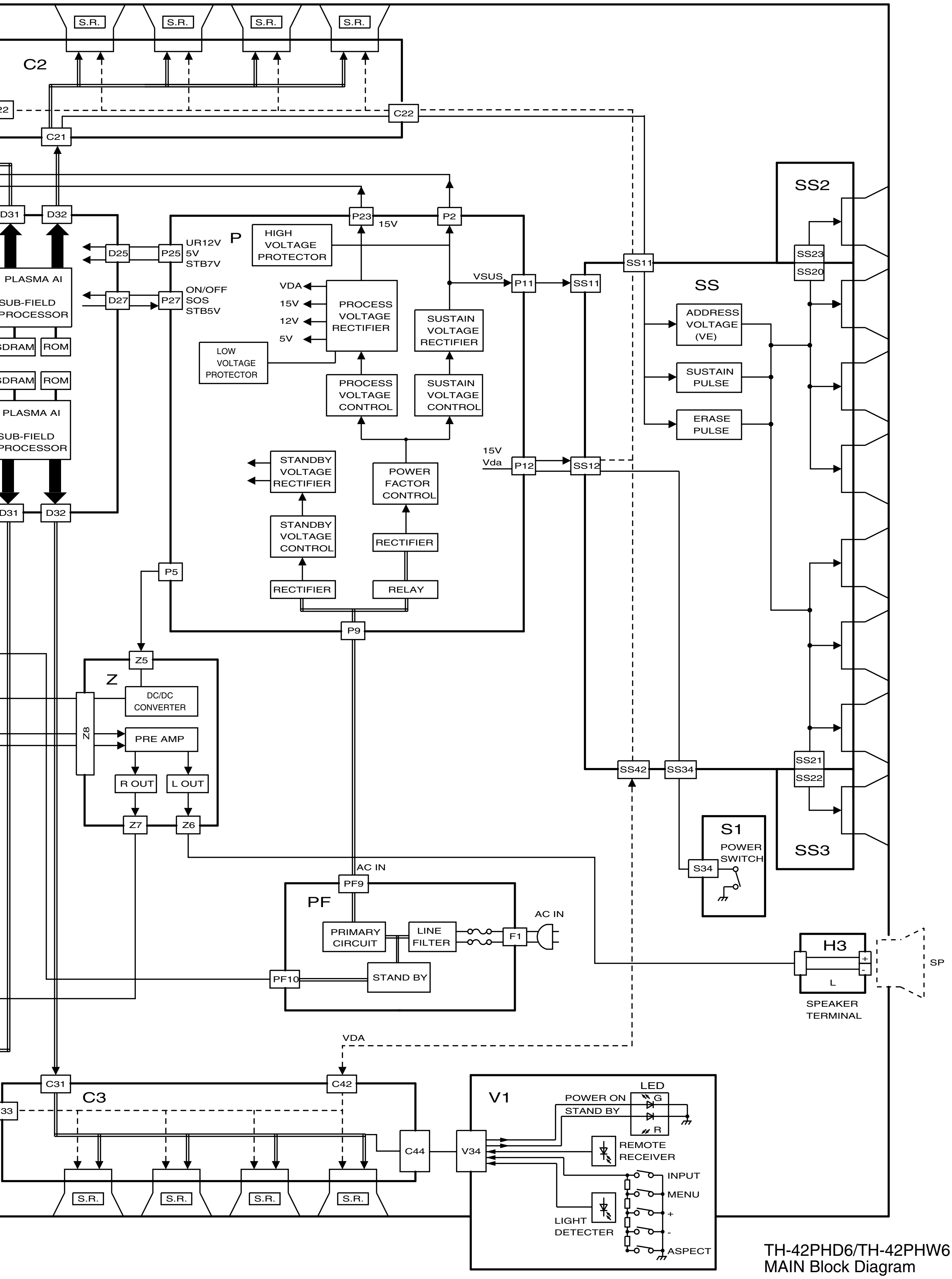
Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   - a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   - b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
     Connect the earth of instruments to the earth connection of the circuit being measured.
   - d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

14.2. Main Block Diagram

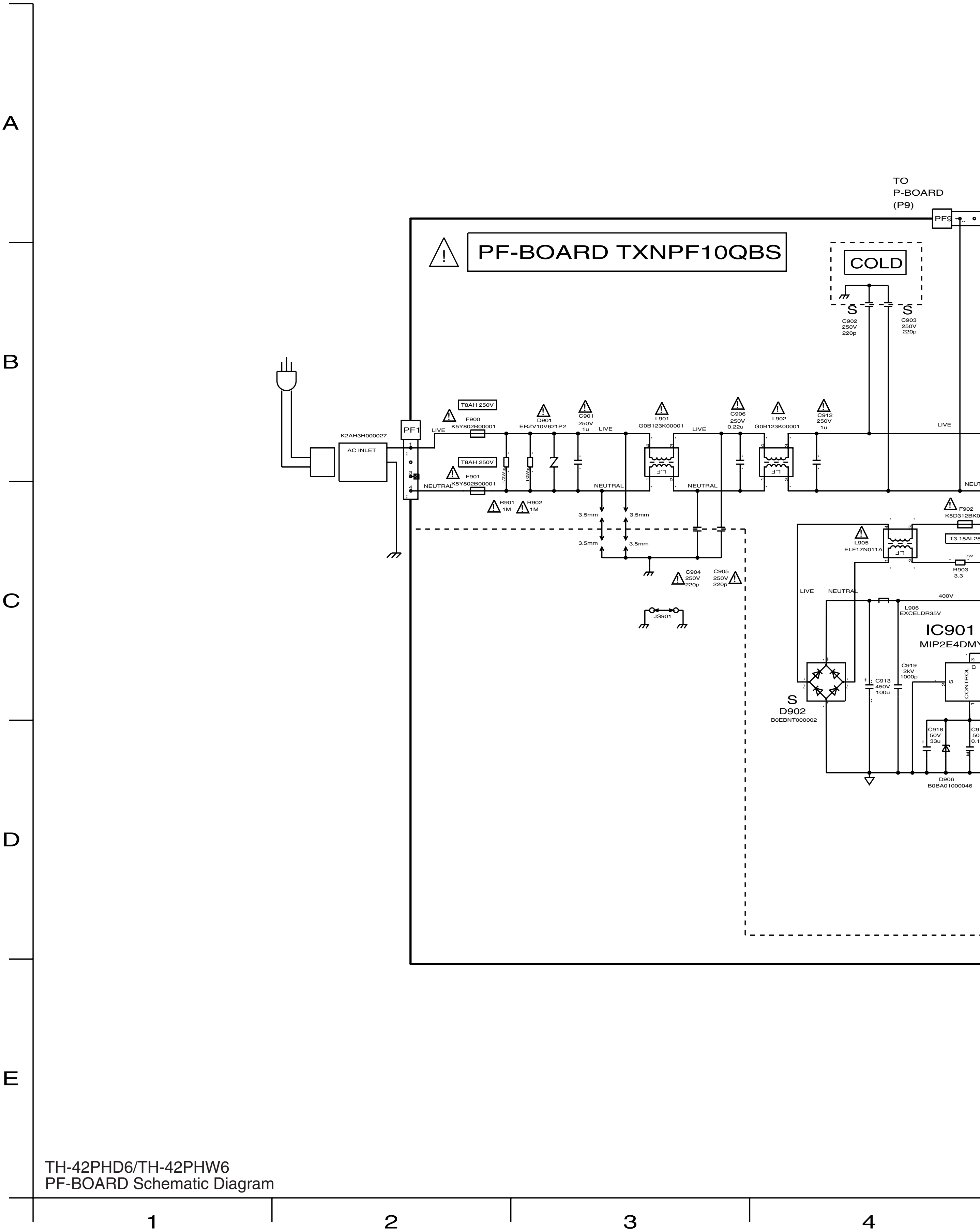

S.R.
S.R.
S.R.
S.R.
S.R.
C1
C2
C12
C22
C11
C21
SU
SC2
SC23
SC
D
D31
D32
S.R
64
DISCHARGE
CONTROL
SC20
D20
CONTROL
MAIN MPU
ROM
SUB MPU
PLASMA AI
SUB-FIELD
PROCESSOR
SDRAM
ROM
FORMAT
CONVERTER
RGB
PROCESSOR
24bit
BUS
CONTROL
PULSE
INITIALIZE
PULSE
SCAN
VOLTAGE
LVDS
LVDS
A/D
SDRAM
D5
D6
D3
D31
D32
J5
J6
J3
J
SD
SYNC
SEPARATOR
SYNC
SW
ANALOG SW
J10
J8
Z8
AUDIO SW
J14
HX
PC AUDIO IN
PC
RS-232C
SP
H3
+
-
R
SPEAKER
TERMINAL
C41
C31
C4
C43
C33
C3

TH-42PHD6/TH-42PHW6
MAIN Block Diagram

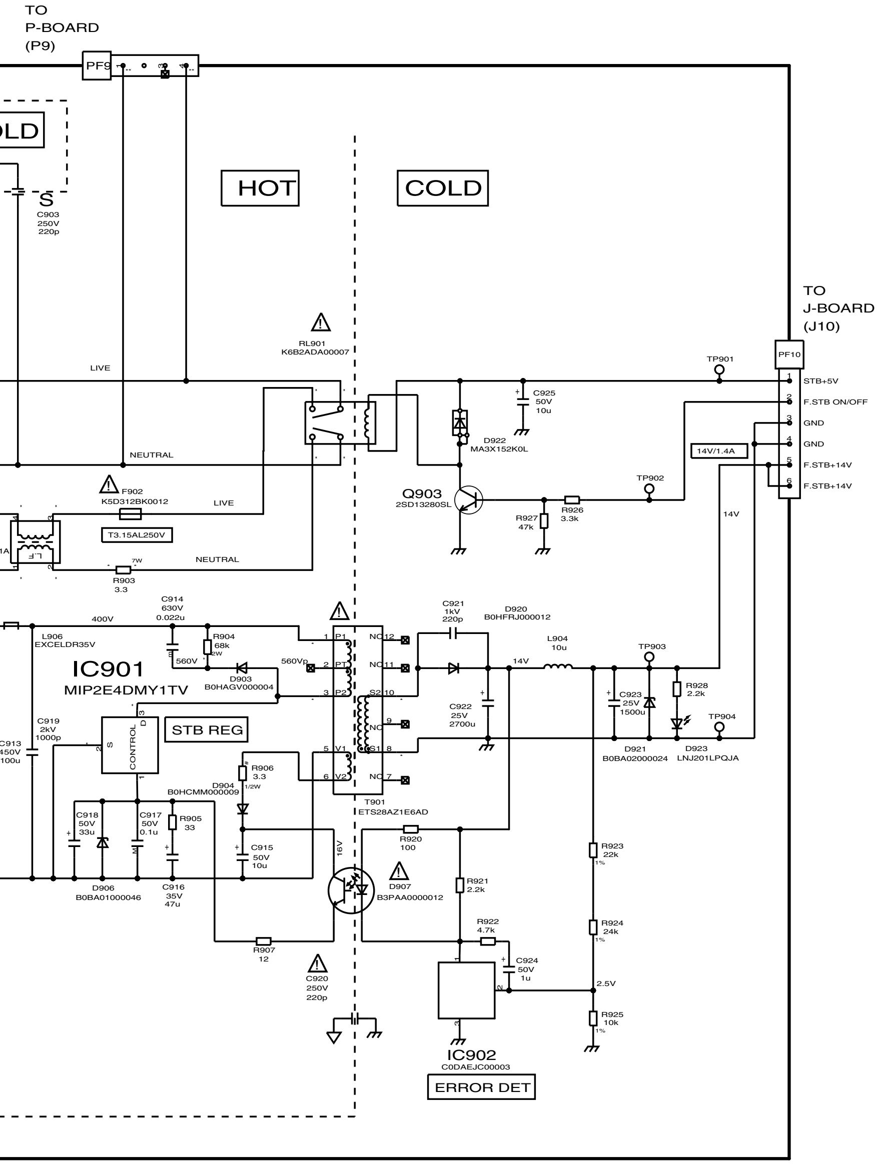

S.R.
S.R.
S.R.
S.R.
C2
22
C22
C21
D31
D32
P23
P2
15V
P
HIGH VOLTAGE PROTECTOR
UR12V
5V
STB7V
D25
P25
ON/OFF
SOS
STB5V
D27
P27
PLASMA AI SUB-FIELD PROCESSOR
SDRAM
ROM
SDRAM
ROM
PLASMA AI SUB-FIELD PROCESSOR
VDA
15V
12V
5V
PROCESS VOLTAGE RECTIFIER
VSUS
P11
SS11
SS11
SUSTAIN VOLTAGE RECTIFIER
LOW VOLTAGE PROTECTOR
PROCESS VOLTAGE CONTROL
SUSTAIN VOLTAGE CONTROL
15V
Vda
P12
SS12
STANDBY VOLTAGE RECTIFIER
POWER FACTOR CONTROL
STANDBY VOLTAGE CONTROL
RECTIFIER
P5
RECTIFIER
RELAY
P9
D31
D32
SS2
SS23
SS20
SS
ADDRESS VOLTAGE (VE)
SUSTAIN PULSE
ERASE PULSE
SS21
SS22
SS42
SS34
SS3
Z5
Z
DC/DC CONVERTER
Z8
PRE AMP
R OUT
L OUT
Z7
Z6
S1
POWER SWITCH
S34
AC IN
PF9
PF
PRIMARY CIRCUIT
LINE FILTER
F1
AC IN
STAND BY
PF10
H3
+
-
L
SP
SPEAKER TERMINAL
VDA
C31
C42
C3
33
C44
V34
V1
LED
G
POWER ON
STAND BY
R
REMOTE RECEIVER
INPUT
MENU
+
-
LIGHT DETECTER
ASPECT
S.R.
S.R.
S.R.
S.R.

TH-42PHD6/TH-42PHW6
MAIN Block Diagram

14.3. PF-Board Schematic Diagram

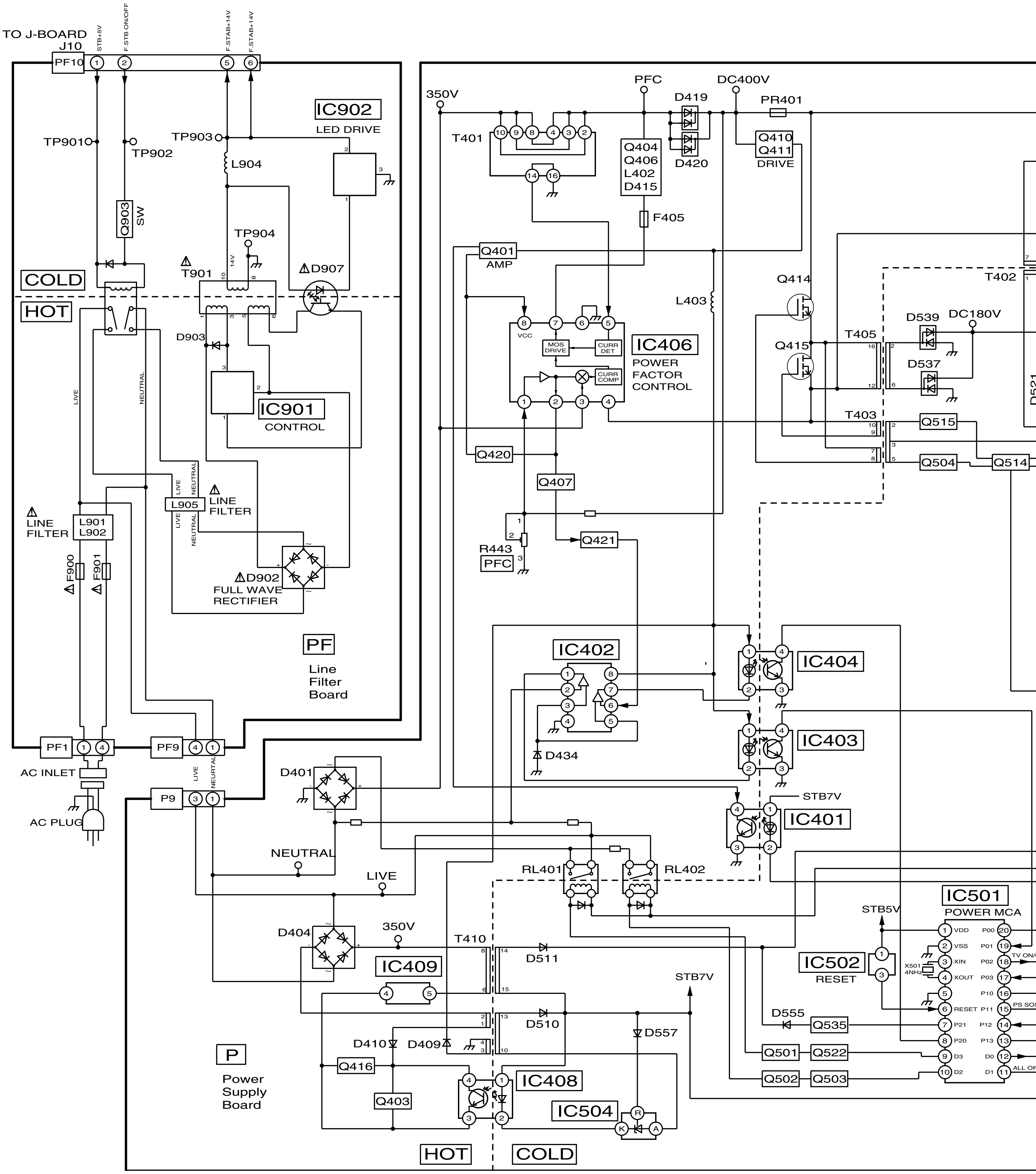

A
B
C
D
E
1
2
3
4
TO
P-BOARD
(P9)
PF9
PF-BOARD TXNPF10QBS
COLD
S
C902
250V
220p
S
C903
250V
220p
K2AH3H000027
AC INLET
PF1
1
3
4
LIVE
NEUTRAL
T8AH 250V
F900
K5Y802B00001
T8AH 250V
F901
K5Y802B00001
1/2W
1/2W
R901
1M
R902
1M
D901
ERZV10V621P2
C901
250V
1u
LIVE
NEUTRAL
3.5mm
3.5mm
3.5mm
3.5mm
L901
G0B123K00001
L.F
LIVE
NEUTRAL
C906
250V
0.22u
L902
G0B123K00001
L.F
C912
250V
1u
LIVE
NEUT
C904
250V
220p
C905
250V
220p
JS901
F902
K5D312BK0
T3.15AL25
L905
ELF17N011A
L.F
7W
R903
3.3
LIVE
NEUTRAL
400V
L906
EXCELDR35V
IC901
MIP2E4DMY
S
CONTROL
D
C919
2kV
1000p
C913
450V
100u
S
D902
B0EBNT000002
C918
50V
33u
C9
50
0.1
D906
B0BA01000046

TH-42PHD6/TH-42PHW6
PF-BOARD Schematic Diagram

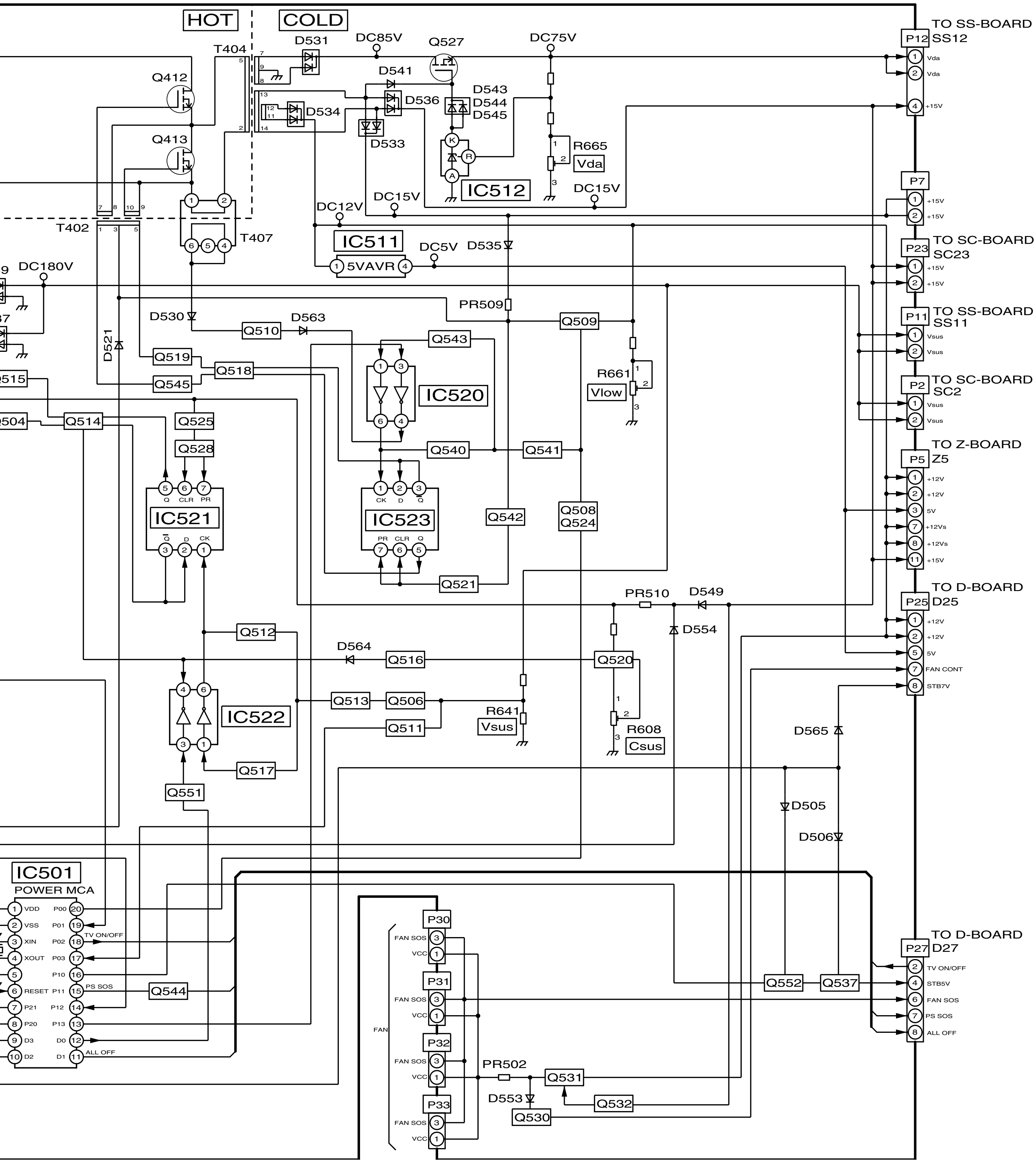

TO
P-BOARD
(P9)
PF9
OLD
S
C903
250V
220p
HOT
COLD
TO
J-BOARD
(J10)
PF10
RL901
K6B2ADA00007
LIVE
NEUTRAL
TP901
C925
50V
10u
D922
MA3X152K0L
1 STB+5V
2 F.STB ON/OFF
3 GND
4 GND
5 F.STB+14V
6 F.STB+14V
14V/1.4A
TP902
14V
F902
K5D312BK0012
LIVE
T3.15AL250V
Q903
2SD13280SL
R927
47k
R926
3.3k
L F
7W
R903
3.3
NEUTRAL
C914
630V
0.022u
400V
L906
EXCELDR35V
R904
68k
2W
560V
D903
B0HAGV000004
560Vp
IC901
MIP2E4DMY1TV
STB REG
CONTROL
C919
2kV
1000p
C913
450V
100u
P1
P1
P2
NC 12
NC 11
S2 10
NC 9
S1 8
NC 7
V1
V2
T901
ETS28AZ1E6AD
C921
1kV
220p
D920
B0HFRJ000012
L904
10u
14V
TP903
C922
25V
2700u
C923
25V
1500u
R928
2.2k
TP904
D921
B0BA02000024
D923
LNJ201LPQJA
R906
3.3
1/2W
D904
B0HCMM000009
C918
50V
33u
C917
50V
0.1u
R905
33
C915
50V
10u
D906
B0BA01000046
C916
35V
47u
16V
R920
100
D907
B3PAA0000012
R921
2.2k
R923
22k
1%
R922
4.7k
R924
24k
1%
C924
50V
1u
2.5V
R925
10k
1%
R907
12
C920
250V
220p
IC902
C0DAEJC00003
ERROR DET

TH-42PHD6/TH-42PHW6
PF-BOARD Schematic Diagram

14.4. Power Block Diagram

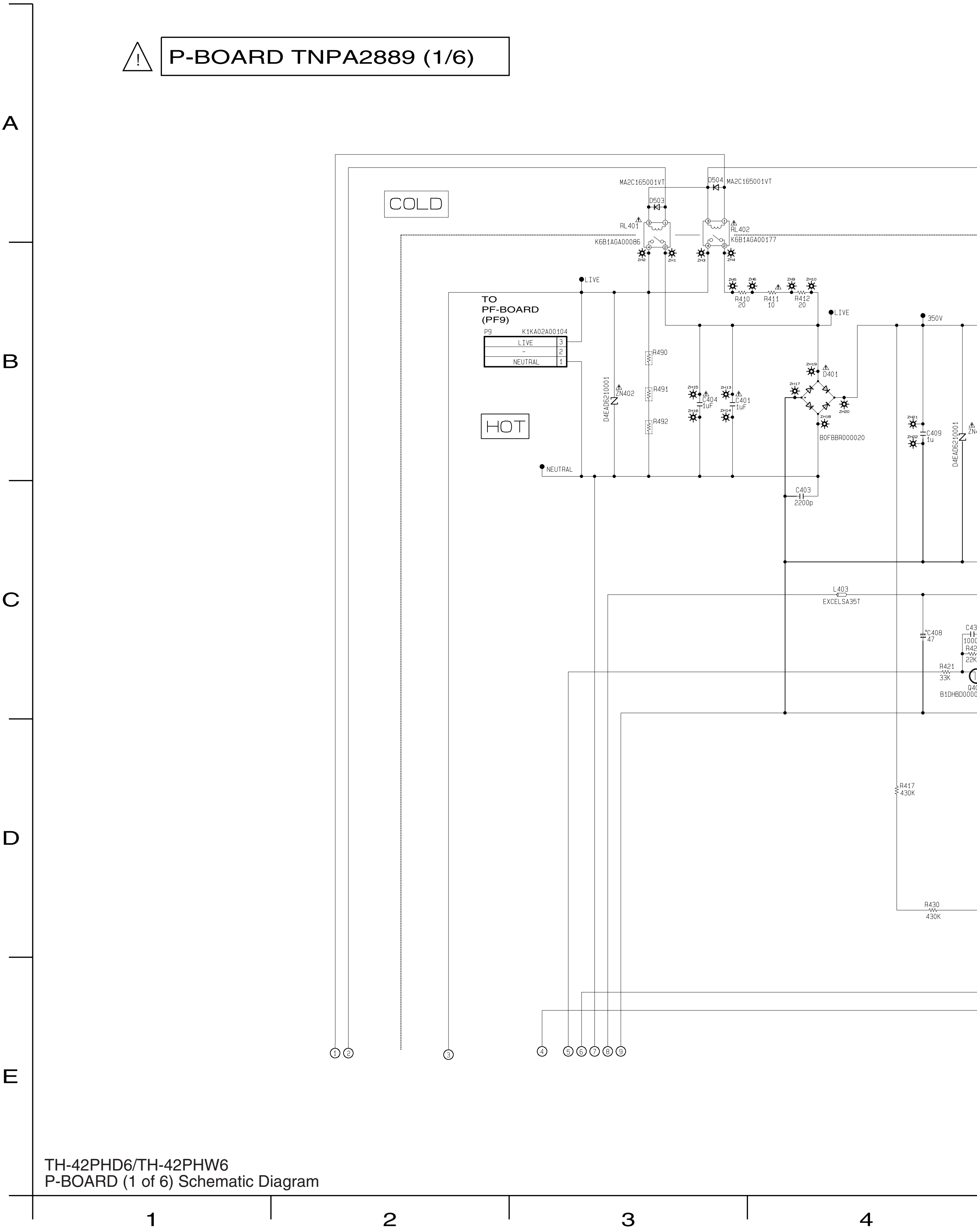

TO J-BOARD
J10
PF10
STB+5V
F.STB ON/OFF
F.STAB+14V
F.STAB+14V
TP901
TP902
TP903
IC902
LED DRIVE
L904
Q903
SW
TP904
T901
14V
D907
COLD
HOT
D903
IC901
CONTROL
LIVE
NEUTRAL
L905
LINE FILTER
LINE FILTER
L901
L902
F900
F901
D902
FULL WAVE RECTIFIER
PF
Line Filter Board
PF1
PF9
AC INLET
AC PLUG
P9
350V
PFC
DC400V
D419
PR401
T401
Q404
Q406
L402
D415
D420
Q410
Q411
DRIVE
F405
Q401
AMP
L403
VCC
MOS DRIVE
CURR DET
CURR COMP
IC406
POWER FACTOR CONTROL
Q420
Q407
R443
PFC
Q421
Q414
Q415
T402
D539
DC180V
T405
D537
T403
Q515
Q504
Q514
D521
IC402
D434
IC404
IC403
STB7V
IC401
D401
NEUTRAL
LIVE
RL401
RL402
IC501
POWER MCA
STB5V
D404
350V
T410
D511
IC409
IC502
RESET
D510
STB7V
D555
Q535
D557
D410
D409
Q416
Q501
Q522
Q502
Q503
Q403
IC408
IC504
P
Power Supply Board
HOT
COLD
VDD
VSS
XIN
XOUT
RESET
P21
P20
D3
D2
P00
P01
P02
P03
P10
P11
P12
P13
D0
D1
X501
4NHz
TV ON/O
PS SOS
ALL OF

TH-42PHD6/TH-42PHW6
POWER Block Diagram

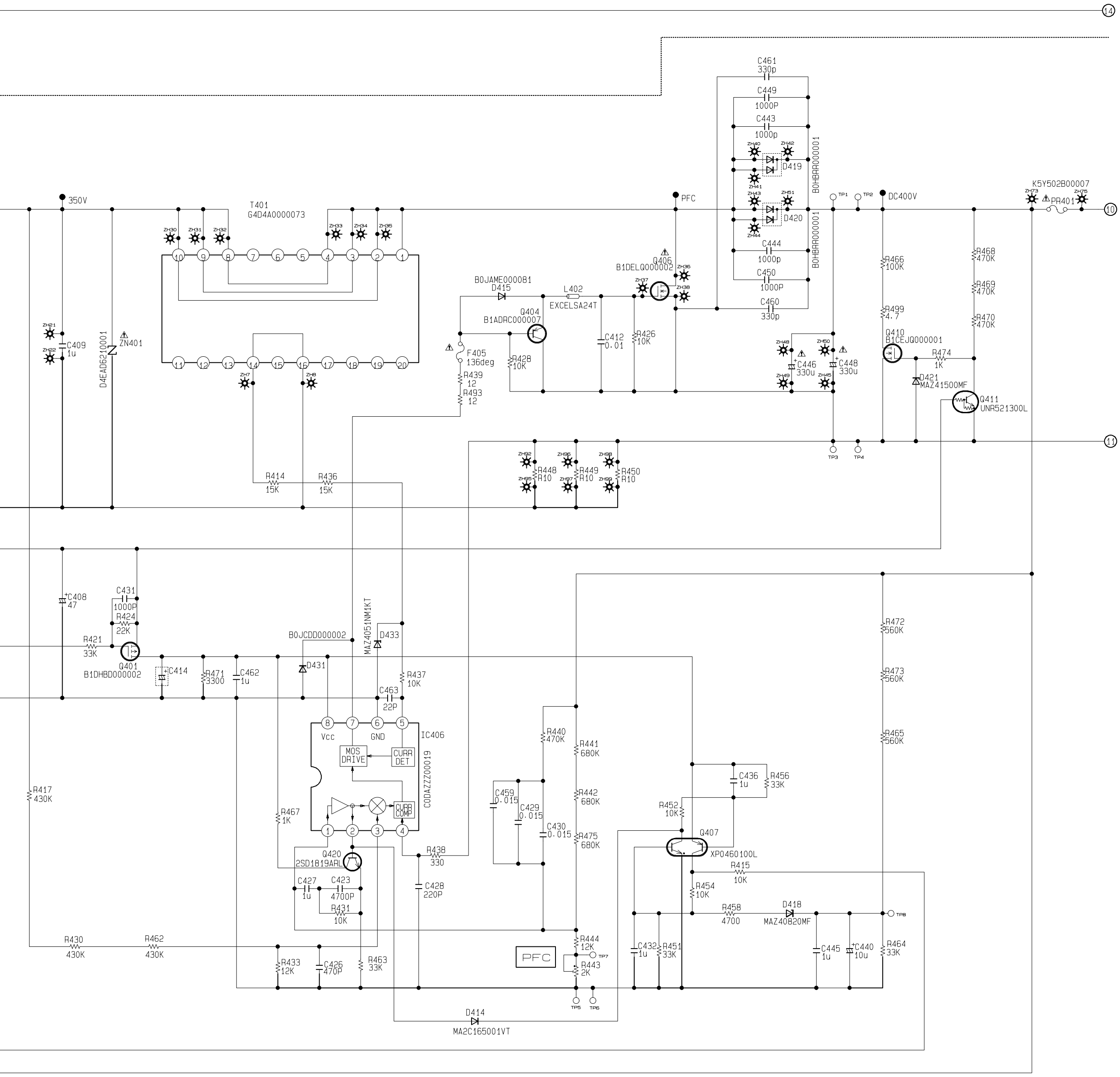

HOT
COLD
T404
D531
DC85V
Q527
DC75V
TO SS-BOARD
P12 SS12
Vda
Vda
+15V
Q412
D541
D543
D544
D545
D536
D534
D533
Q413
K
R
A
R665
Vda
IC512
DC15V
DC15V
P7
+15V
+15V
DC12V
T402
T407
IC511
5VAVR
DC5V
D535
TO SC-BOARD
P23 SC23
+15V
+15V
DC180V
PR509
Q509
TO SS-BOARD
P11 SS11
Vsus
Vsus
D530
Q510
D563
Q543
D521
Q519
Q518
IC520
R661
Vlow
TO SC-BOARD
P2 SC2
Vsus
Vsus
Q545
Q515
Q504
Q514
Q525
Q528
Q540
Q541
TO Z-BOARD
P5 Z5
+12V
+12V
5V
+12Vs
+12Vs
+15V
Q CLR PR
CK D Q
IC521
IC523
Q542
Q508
Q524
Q D CK
PR CLR Q
Q521
PR510
D549
TO D-BOARD
P25 D25
+12V
+12V
5V
FAN CONT
STB7V
Q512
D554
D564
Q516
Q520
Q513
Q506
IC522
R641
Vsus
Q511
R608
Csus
D565
Q517
Q551
D505
D506
IC501
POWER MCA
VDD P00
VSS P01
XIN P02
XOUT P03
P10
RESET P11
P21 P12
P20 P13
D3 D0
D2 D1
TV ON/OFF
PS SOS
ALL OFF
Q544
P30
FAN SOS
VCC
P31
FAN SOS
VCC
FAN
P32
FAN SOS
VCC
PR502
Q531
P33
FAN SOS
VCC
D553
Q532
Q530
Q552
Q537
TO D-BOARD
P27 D27
TV ON/OFF
STB5V
FAN SOS
PS SOS
ALL OFF

TH-42PHD6/TH-42PHW6
POWER Block Diagram

14.5. P-Board (1 of 6) Schematic Diagram


A
B
C
D
E
1
2
3
4
P-BOARD TNPA2889 (1/6)
COLD
HOT
MA2C165001VT
D504
MA2C165001VT
D503
RL401
RL402
K6B1AGA00086
K6B1AGA00177
ZH1
ZH2
ZH3
ZH4
LIVE
ZH5
ZH6
ZH9
ZH10
R410
20
R411
10
R412
20
LIVE
350V
TO
PF-BOARD
(PF9)
P9
K1KA02A00104
LIVE
-
NEUTRAL
3
2
1
R490
R491
R492
D4EAD6210001
ZN402
ZH15
C404
1uF
ZH16
ZH13
C401
1uF
ZH14
ZH19
D401
ZH17
ZH20
ZH18
B0FBBR000020
ZH21
C409
1u
ZH22
D4EAD6210001
NEUTRAL
C403
2200p
L403
EXCELSA35T
C408
47
R421
33K
B1DHBD0000
R417
430K
R430
430K
①
②
③
④
⑤
⑥
⑦
⑧
⑨

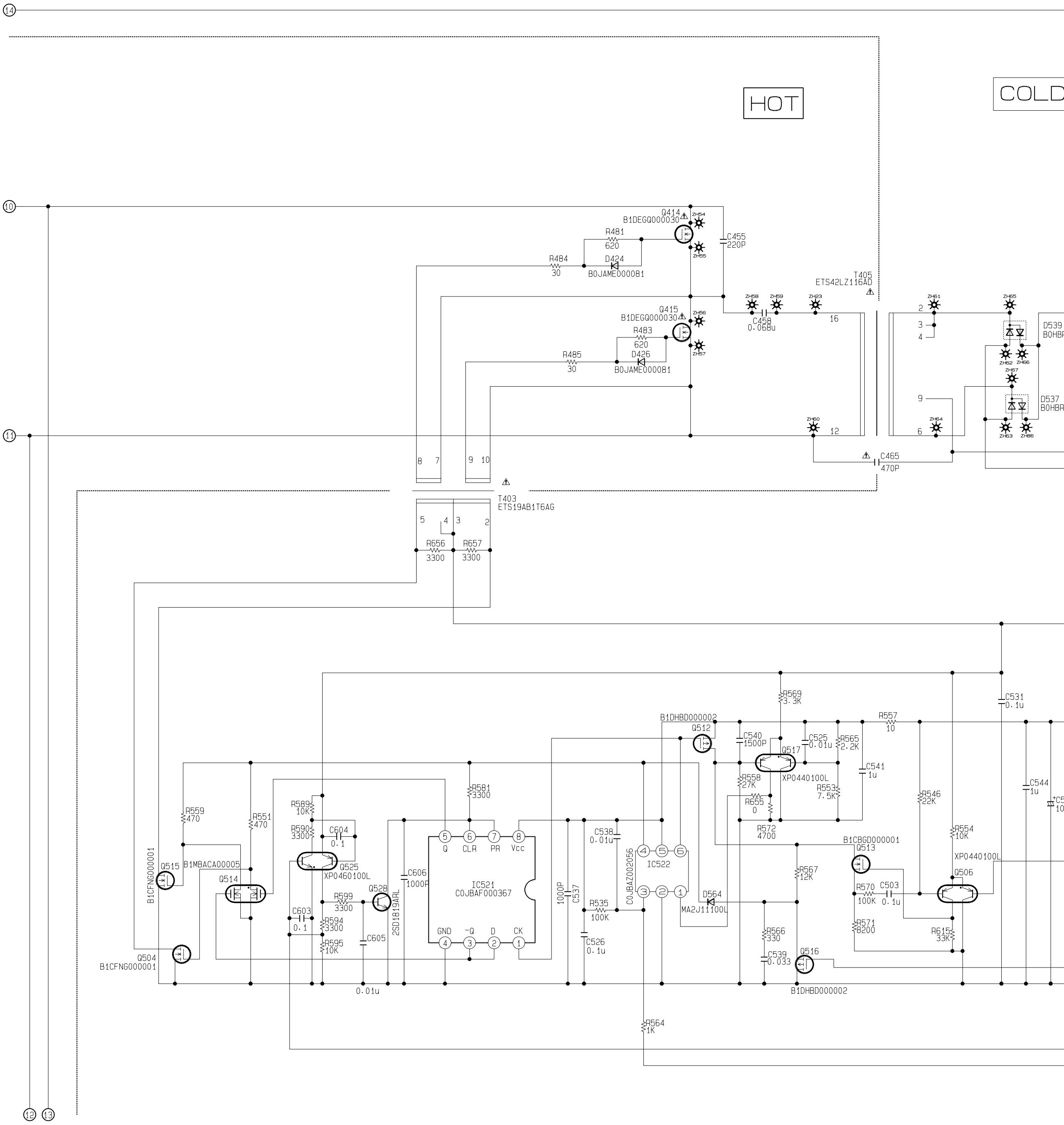
TH-42PHD6/TH-42PHW6
P-BOARD (1 of 6) Schematic Diagram


14
10
11
350V
T401
G4D4A0000073
C409
1u
D4EAD6210001
ZN401
PFC
DC400V
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
K5Y502B00007
PR401
C461
330p
C449
1000P
C443
1000p
D419
D420
B0HBRR000001
C444
1000p
C450
1000P
C460
330p
B0JAME000081
D415
L402
EXCELSA24T
Q406
B1DELQ000002
Q404
B1ADRC000007
F405
136deg
R439
12
R493
12
R428
10K
C412
0.01
R426
10K
C446
330u
C448
330u
R466
100K
R499
4.7
Q410
B1CEJQ000001
R474
1K
D421
MAZ41500MF
Q411
UNR521300L
R468
470K
R469
470K
R470
470K
R448
R10
R449
R10
R450
R10
R414
15K
R436
15K
C408
47
C431
1000P
R424
22K
R421
33K
Q401
B1DHBD000002
C414
R471
3300
C462
1u
B0JCDD000002
D431
D433
MAZ4051NM1KT
R437
10K
C463
22P
IC406
C0DAZZ000019
Vcc
GND
MOS DRIVE
CURR DET
CURR COMP
R467
1K
Q420
2SD1819ARL
C427
1u
C423
4700P
R431
10K
R438
330
C428
220P
R417
430K
R430
430K
R462
430K
R433
12K
C426
470P
R463
33K
C459
0.015
C429
0.015
C430
0.015
R440
470K
R441
680K
R442
680K
R475
680K
R444
12K
R443
2K
PFC
D414
MA2C165001VT
R452
10K
Q407
XP0460100L
C436
1u
R456
33K
R415
10K
R454
10K
R458
4700
D418
MAZ40820MF
C432
1u
R451
33K
C445
1u
C440
10u
R464
33K
R472
560K
R473
560K
R465
560K
5
6
7
8

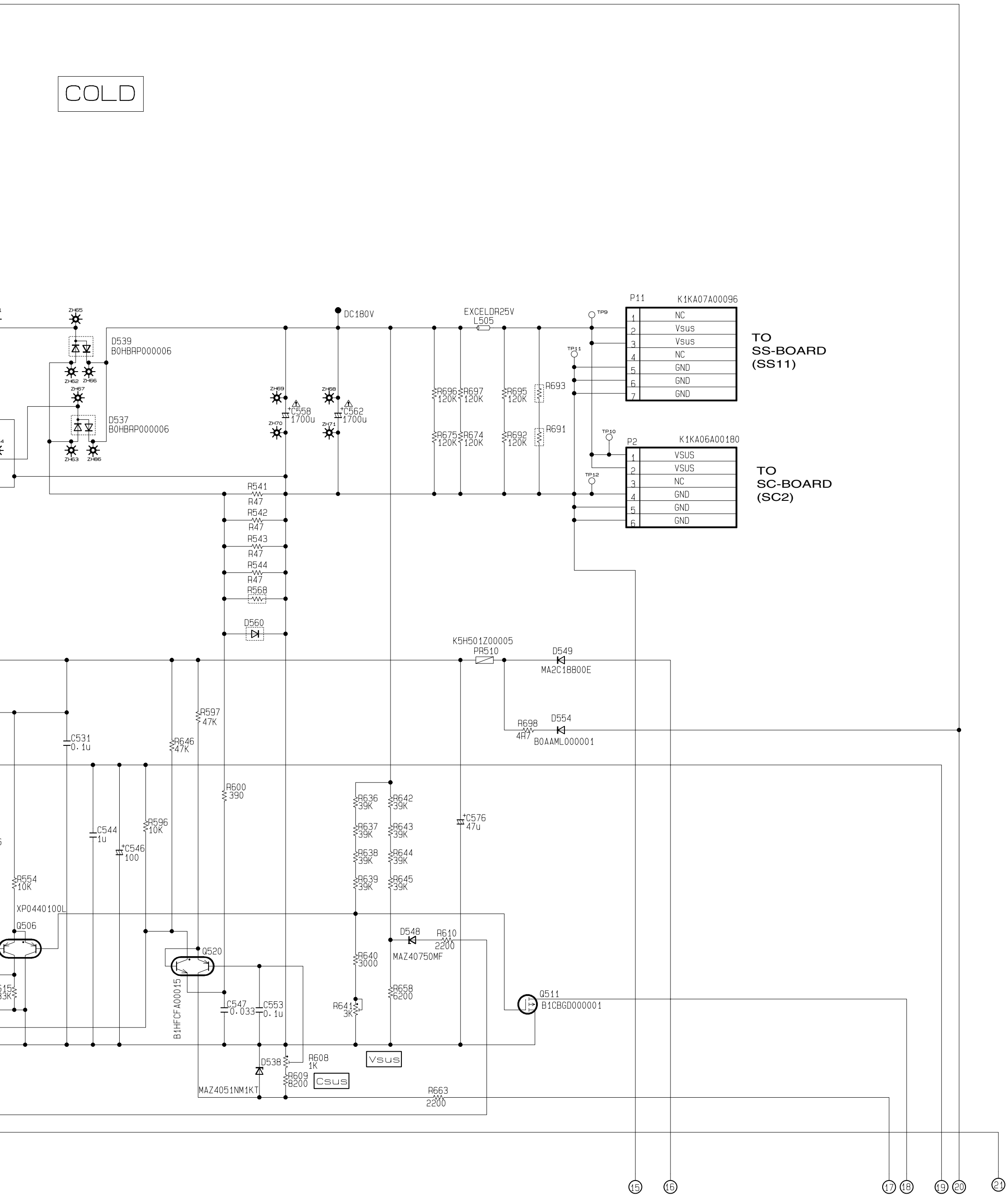
TH-42PHD6/TH-42PHW6
P-BOARD (1 of 6) and Schematic Diagram

14.6. P-Board (2 of 6) Schematic Diagram

⚠ P-BOARD TNPA2889 (2/6)



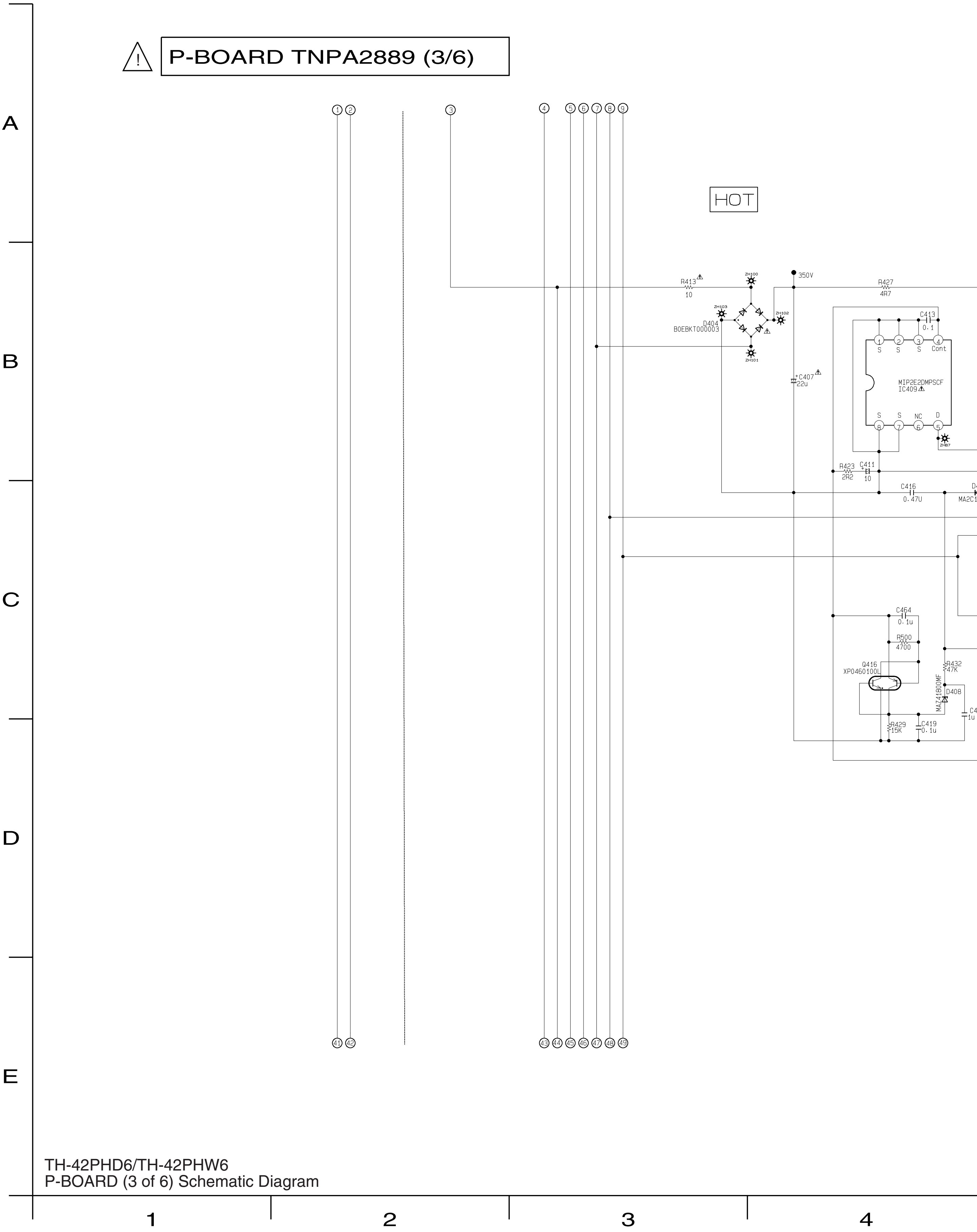
HOT
COLD
⑭
⑩
⑪
⑫
⑬
Q414
B1DEGQ000030
R481
620
R484
30
D424
B0JAME000081
C455
220P
Q415
B1DEGQ000030
R483
620
R485
30
D426
B0JAME000081
T405
ETS42LZ116AD
C458
0.068u
16
12
C465
470P
D539
D537
T403
ETS19AB1T6AG
R656
3300
R657
3300
R569
3.3K
B1DHBD000002
Q512
C540
1500P
C525
0.01u
R565
2.2K
R557
10
C531
0.1u
Q517
XP04401000L
C541
1u
R558
27K
R655
0
R553
7.5K
R572
4700
R546
22K
C544
1u
R554
10K
B1CBGD000001
Q513
XP04401000L
Q506
R567
12K
R570
100K
C503
0.1u
R571
8200
R615
33K
R566
330
C539
0.033
Q516
B1DHBD000002
R564
1K
IC522
C0JBAZ002056
D564
MA2J11100L
C538
0.01u
R535
100K
C526
0.1u
C537
1000P
IC521
C0JBAF000367
Q
CLR
PR
Vcc
GND
-Q
D
CK
C606
1000P
Q528
2SD1819ARL
R599
3300
R594
3300
R595
10K
C605
0.01u
C603
0.1
R589
10K
R590
3300
C604
0.1
Q525
XP04601000L
R581
3300
R551
470
R559
470
Q515
B1CFNG000001
B1MBACA00005
Q514
Q504
B1CFNG000001


COLD
ZH65
D539
B0HBRP000006
ZH62
ZH66
ZH67
D537
B0HBRP000006
ZH63
ZH86
DC180V
ZH69
C558
1700u
ZH70
ZH68
C562
1700u
ZH71
EXCELDR25V
L505
R696
120K
R697
120K
R695
120K
R693
R675
120K
R674
120K
R692
120K
R691
TP9
TP11
TP10
TP12
P11
K1KA07A00096
1 NC
2 Vsus
3 Vsus
4 NC
5 GND
6 GND
7 GND
TO
SS-BOARD
(SS11)
P2
K1KA06A00180
1 VSUS
2 VSUS
3 NC
4 GND
5 GND
6 GND
TO
SC-BOARD
(SC2)
R541
R47
R542
R47
R543
R47
R544
R47
R568
D560
K5H501Z00005
PR510
D549
MA2C18800E
R698
4R7
D554
B0AAML000001
R597
47K
C531
0.1u
R646
47K
R600
390
C544
1u
C546
100
R596
10K
R636
39K
R637
39K
R638
39K
R639
39K
R642
39K
R643
39K
R644
39K
R645
39K
C576
47u
R554
10K
XP0440100L
Q506
515
33K
Q520
B1HFCFA00015
C547
0.033
C553
0.1u
R640
3000
R641
3K
D548
MAZ40750MF
R610
2200
R658
6200
Q511
B1CBGD000001
D538
MAZ4051NM1KT
R608
1K
R609
8200
Csus
Vsus
R663
2200
⑮
⑯
⑰
⑱
⑲
⑳
㉑

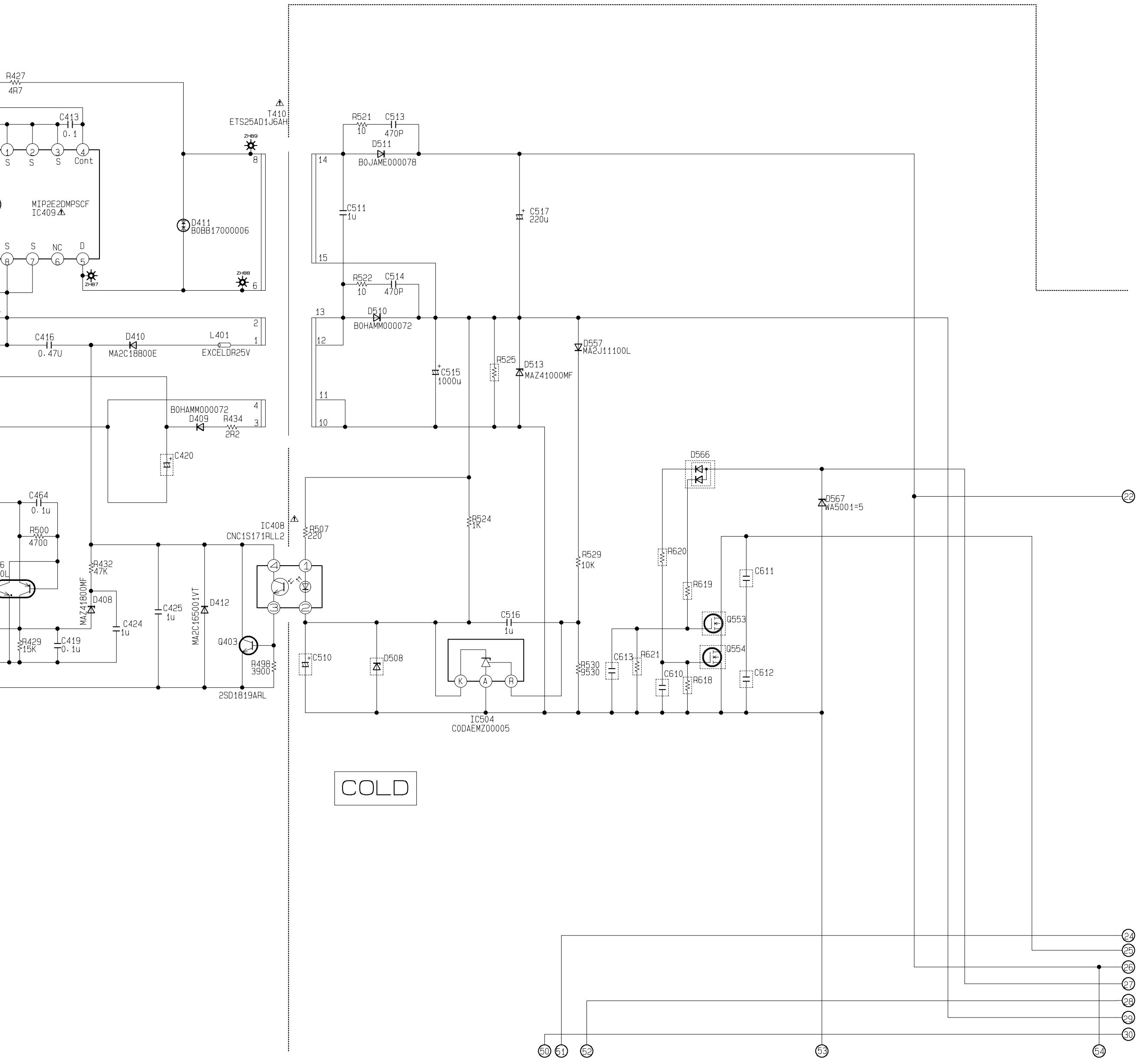
TH-42PHD6/TH-42PHW6
P-BOARD (2 of 6) Schematic Diagram

12	13	14	15

14.7. P-Board (3 of 6) Schematic Diagram

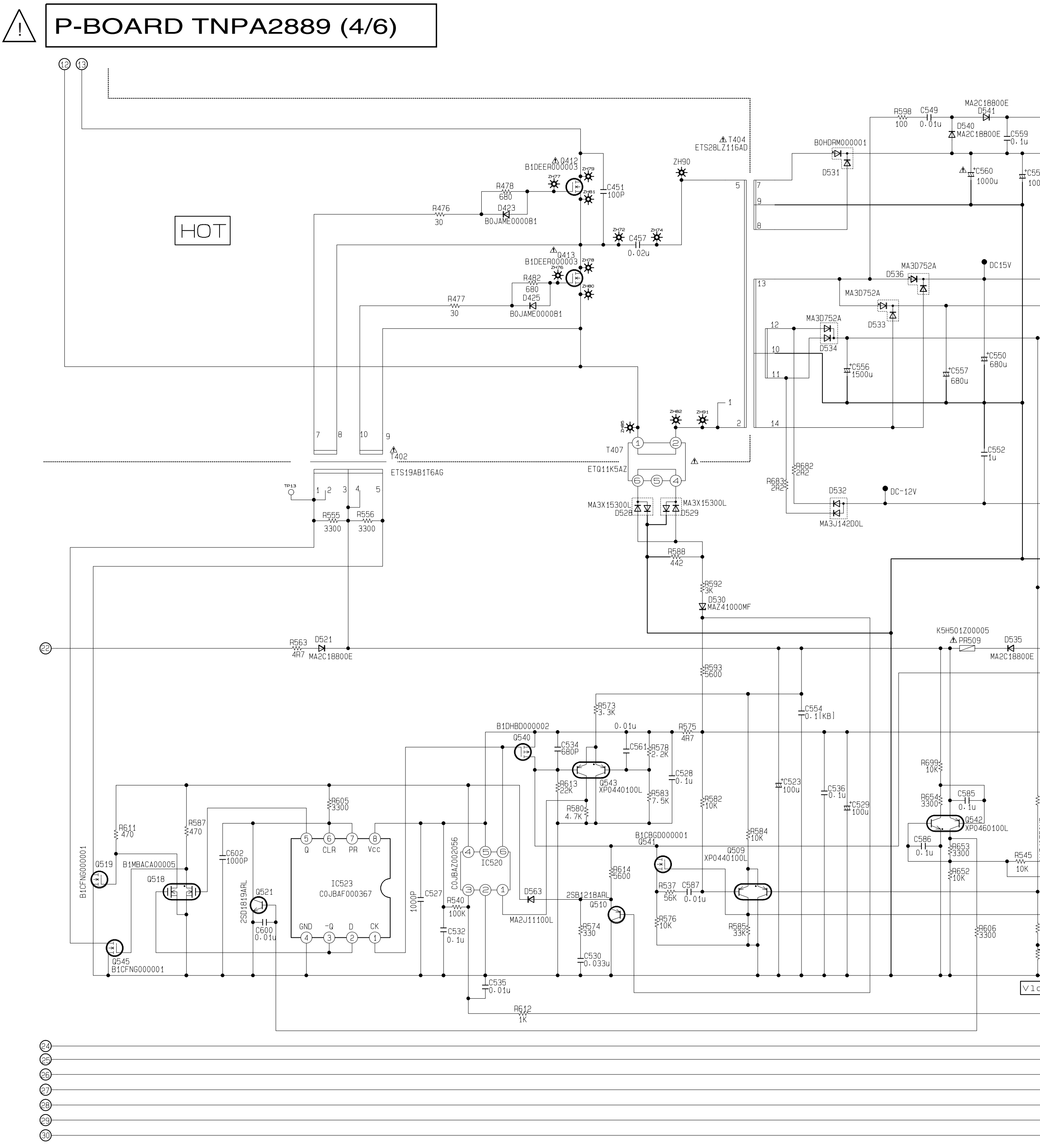

P-BOARD TNPA2889 (3/6)
A
B
C
D
E
1
2
3
4
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨
HOT
R413
10
ZH100
ZH103
ZH102
ZH101
D404
B0EBKT000003
350V
R427
4R7
C413
0.1
1 S
2 S
3 S
4 Cont
MIP2E2DMPSCF
IC409
S 8
S 7
NC 6
D 5
ZH87
+C407
22u
R423
2R2
C411
10
C416
0.47U
D4
MA2C1
C464
0.1u
R500
4700
Q416
XP0460100L
R432
47K
D408
MAZ41800MF
C4
1u
R429
15K
C419
0.1u
㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾

TH-42PHD6/TH-42PHW6
P-BOARD (3 of 6) Schematic Diagram

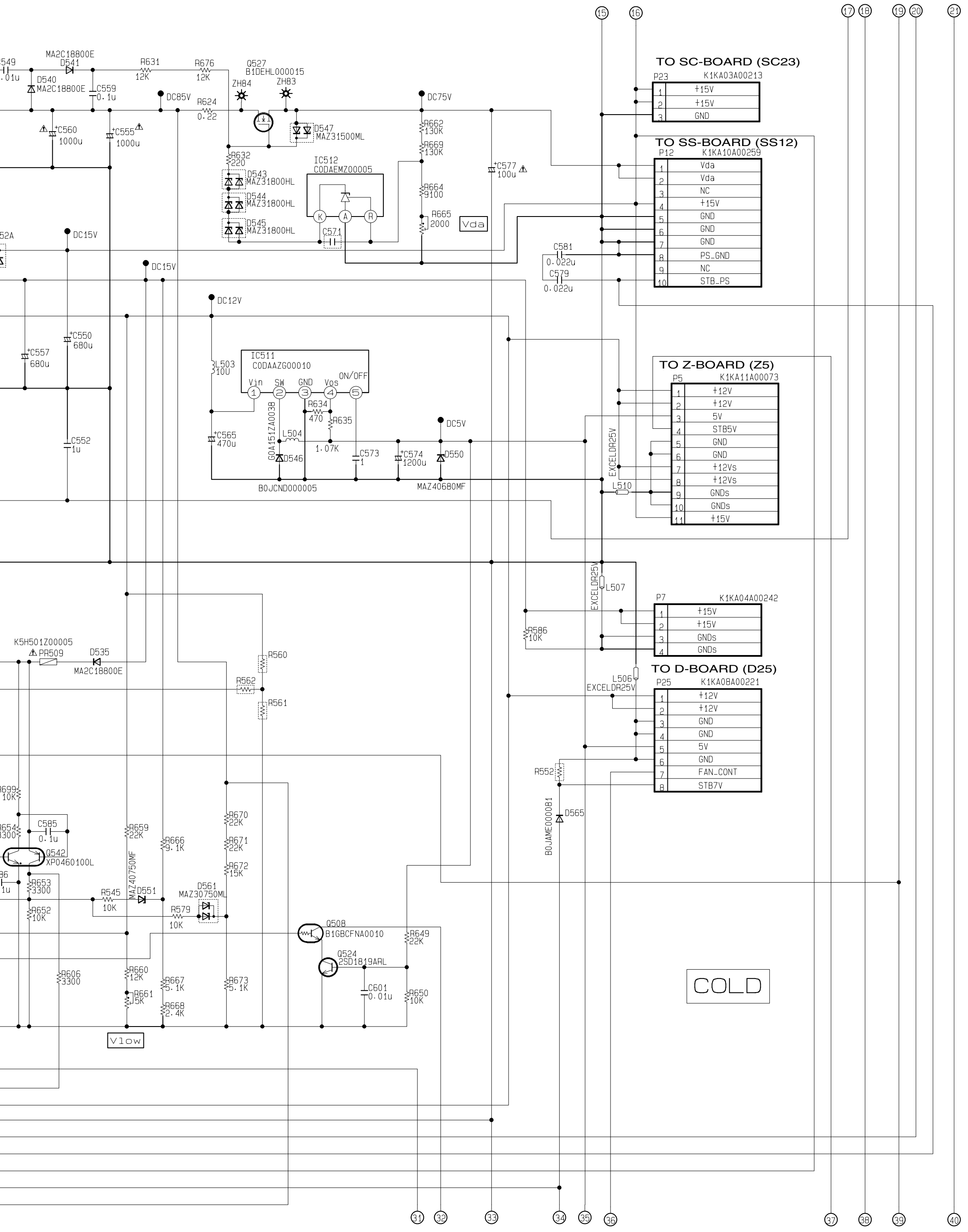

R427
4R7
C413
0.1
S
S
S
Cont
MIP2E2DMPSCF
IC409
S
S
NC
D
T410
ETS25AD1J6AH
ZH89
ZH88
ZH87
D411
B0BB17000006
C416
0.47U
D410
MA2C188B00E
L401
EXCELDR25V
B0HAMM000072
D409
R434
2R2
C420
C464
0.1u
R500
4700
R432
47K
MAZ41800MF
D408
C424
1u
R429
15K
C419
0.1u
C425
1u
MA2C165001VT
D412
Q403
R498
3900
2SD1819ARL
IC408
CNC1S171RLL2
R507
220
R521
10
C513
470P
D511
B0JAME000078
C511
1u
C517
220u
R522
10
C514
470P
D510
B0HAMM000072
C515
1000u
R525
D513
MAZ41000MF
D557
MA2J11100L
R524
1K
C510
D508
C516
1u
K
A
R
IC504
C0DAEMZ00005
R529
10K
R530
9530
C613
R621
C610
R618
R620
R619
D566
Q553
Q554
C611
C612
D567
MA5001=5
COLD

TH-42PHD6/TH-42PHW6
P-BOARD (3 of 6) and Schematic Diagram

14.8. P-Board (4 of 6) Schematic Diagram



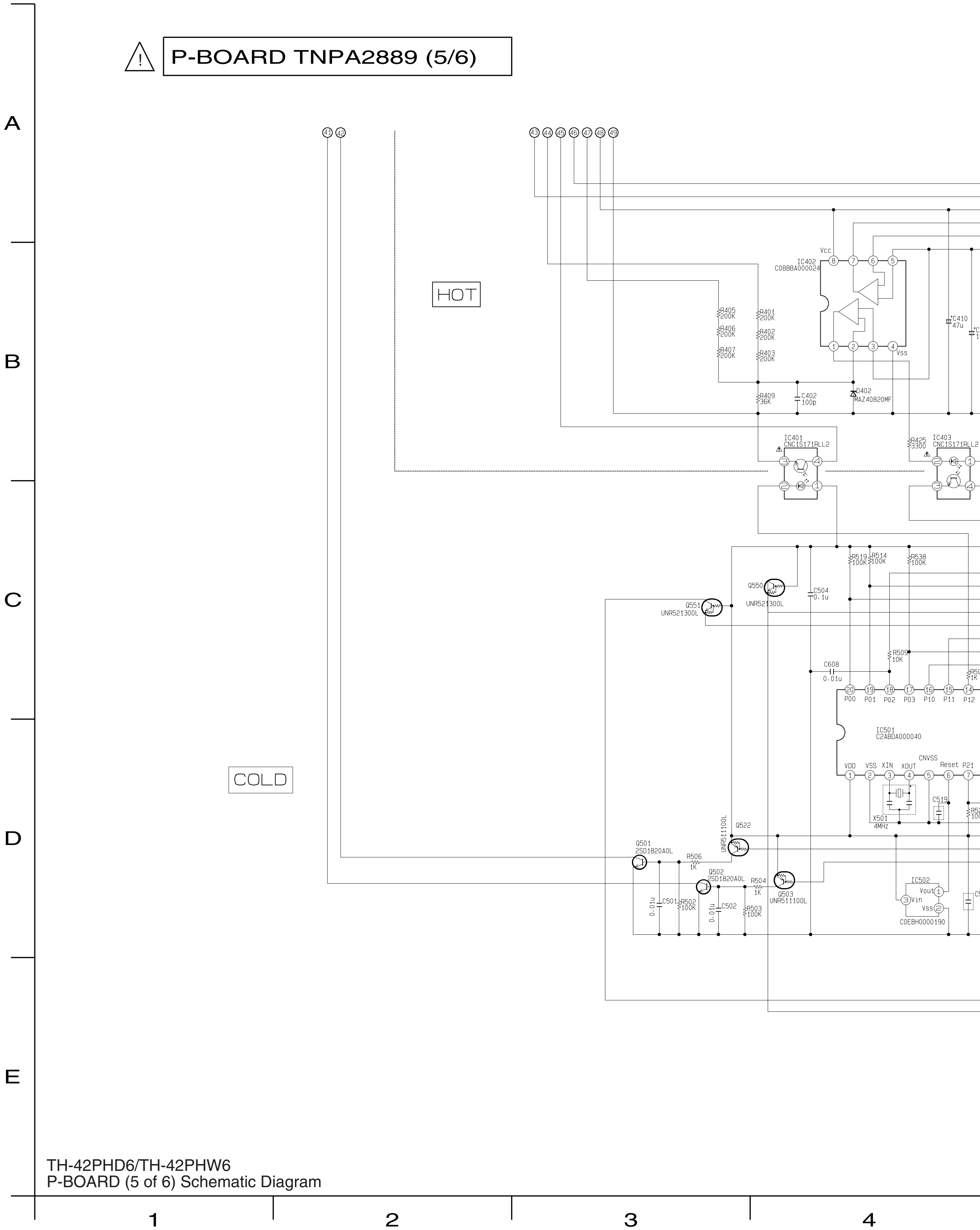
P-BOARD TNPA2889 (4/6)
HOT
T404
ETS28LZ116AD
Q412
B1DEER000003
R478
680
R476
30
D423
B0JAME000081
C451
100P
C457
0.02u
ZH90
Q413
B1DEER000003
R482
680
D425
R477
30
B0JAME000081
T402
ETS19AB1T6AG
T407
ETQ11K5AZ
TP13
R555
3300
R556
3300
MA3X15300L
D528
D529
R588
442
R592
3K
D530
MAZ41000MF
R563
4R7
D521
MA2C18800E
R598
100
C549
0.01u
MA2C18800E
D541
D540
C559
0.1u
B0HDRM000001
D531
C560
1000u
DC15V
MA3D752A
D536
D533
D534
C556
1500u
C557
680u
C550
680u
C552
1u
R682
2R2
R683
2R2
D532
DC-12V
MA3J142D0L
K5H501Z00005
PR509
D535
R593
5600
R573
3.3K
C554
0.1(KB)
B1DHBD000002
Q540
C534
680P
C561
R578
2.2K
R575
4R7
C528
0.1u
R613
22K
Q543
XP0440100L
R583
7.5K
R580
4.7K
R582
10K
C523
100u
C536
0.1u
C529
100u
R699
10K
R654
3300
C585
0.1u
Q542
XP0460100L
C586
0.1u
R653
3300
R652
10K
R545
10K
R605
3300
R611
470
R587
470
C602
1000P
Q519
B1MBACA00005
Q518
B1CFNG000001
Q521
2SD1819ARL
C600
0.01u
IC523
C0JBAF000367
Q CLR PR Vcc
GND -Q D CK
1000P
C527
R540
100K
C532
0.1u
C0JBAZ002056
IC520
D563
MA2J11100L
2SB1218ARL
Q510
R574
330
C530
0.033u
R614
5600
B1CBGD000001
Q541
R537
56K
C587
0.01u
R576
10K
Q509
XP0440100L
R584
10K
R585
33K
R606
3300
Q545
B1CFNG000001
C535
0.01u
R612
1K


TO SC-BOARD (SC23)
P23 K1KA03A00213
1 +15V
2 +15V
3 GND
TO SS-BOARD (SS12)
P12 K1KA10A00259
1 Vda
2 Vda
3 NC
4 +15V
5 GND
6 GND
7 GND
8 PS_GND
9 NC
10 STB_PS
TO Z-BOARD (Z5)
P5 K1KA11A00073
1 +12V
2 +12V
3 5V
4 STB5V
5 GND
6 GND
7 +12Vs
8 +12Vs
9 GNDs
10 GNDs
11 +15V
P7 K1KA04A00242
1 +15V
2 +15V
3 GNDs
4 GNDs
TO D-BOARD (D25)
P25 K1KA0BA00221
1 +12V
2 +12V
3 GND
4 GND
5 5V
6 GND
7 FAN_CONT
8 STB7V
MA2C18800E
D541
D540
MA2C18800E
C559 0.1u
R631 12K
R676 12K
Q527 B1DEHL000015
ZH84
ZH83
DC85V
R624 0.22
DC75V
C560 1000u
C555 1000u
D547 MAZ31500ML
R662 130K
R669 130K
R632 220
D543 MAZ31800HL
D544 MAZ31800HL
D545 MAZ31800HL
IC512 C0DAEMZ00005
K A R
C571
R664 9100
R665 2000
Vda
C577 100u
C581 0.022u
C579 0.022u
DC15V
DC15V
DC12V
C550 680u
C557 680u
L503 10U
IC511 C0DAAZG00010
Vin SW GND Vos ON/OFF
1 2 3 4 5
R634 470
R635 1.07K
L504
G0A151ZA0038
D546
C565 470u
C573 1
C574 1200u
D550
DC5V
MAZ40680MF
B0JCND000005
C552 1u
EXCELDR25V
L510
EXCELDR25V
L507
R586 10K
L506
EXCELDR25V
K5H501Z00005
PR509
D535
MA2C18800E
R560
R562
R561
R552
B0JAME000081
D565
R699 10K
R654 3300
C585 0.1u
Q542 XP0460100L
R653 3300
R652 10K
R659 22K
R666 9.1K
MAZ40750MF
R545 10K
D551
D561 MAZ30750ML
R579 10K
R670 22K
R671 22K
R672 15K
Q508 B1GBCFNA0010
R649 22K
Q524 2SD1819ARL
C601 0.01u
R650 10K
R606 3300
R660 12K
R661 15K
R667 5.1K
R668 2.4K
R673 5.1K
Vlow
COLD
⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑
㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵

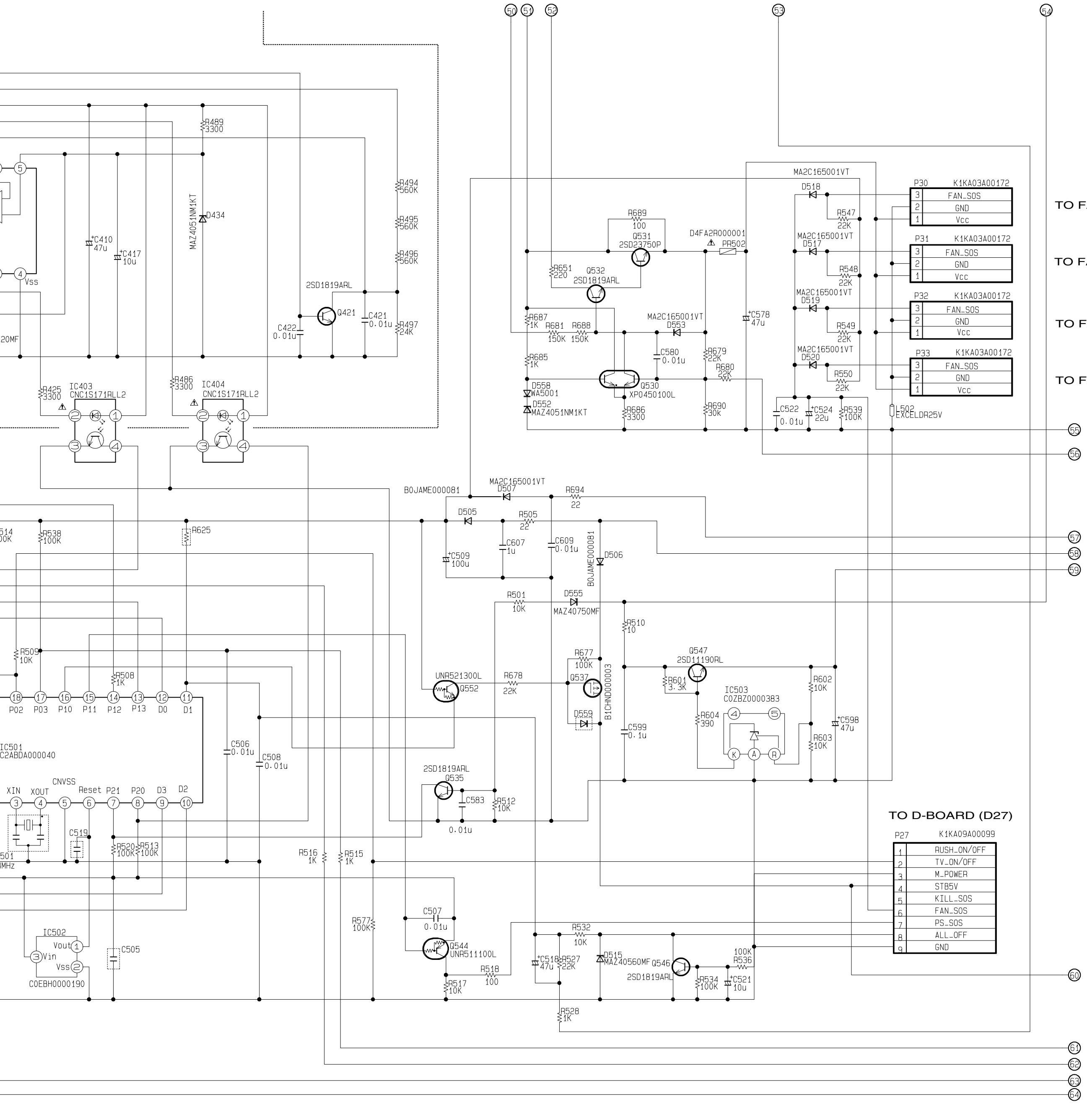
TH-42PHD6/TH-42PHW6
P-BOARD (4 of 6) Schematic Diagram

12 13 14 15

14.9. P-Board (5 of 6) Schematic Diagram


P-BOARD TNPA2889 (5/6)
HOT
COLD
A
B
C
D
E
1
2
3
4
41
42
43
44
45
46
47
48
49
IC402
C0BBBA000024
Vcc
Vss
R405 200K
R406 200K
R407 200K
R401 200K
R402 200K
R403 200K
R409 36K
C402 100p
D402 MAZ40B20MF
C410 47u
IC401 CNC1S171RLL2
IC403 CNC1S171RLL2
R425 3300
R519 100K
R514 100K
R538 100K
Q550 UNR521300L
Q551 UNR521300L
C504 0.1u
R509 10K
C608 0.01u
P00
P01
P02
P03
P10
P11
P12
IC501 C2ABDA000040
VDD
VSS
XIN
XOUT
CNVSS
Reset
P21
X501 4MHz
C519
Q522 UNR511100L
Q501 2SD1820A0L
R506 1K
Q502 2SD1820A0L
R504 1K
Q503 UNR511100L
C501 0.01u
R502 100K
C502 0.01u
R503 100K
IC502
Vout
Vin
Vss
C0EBH0000190

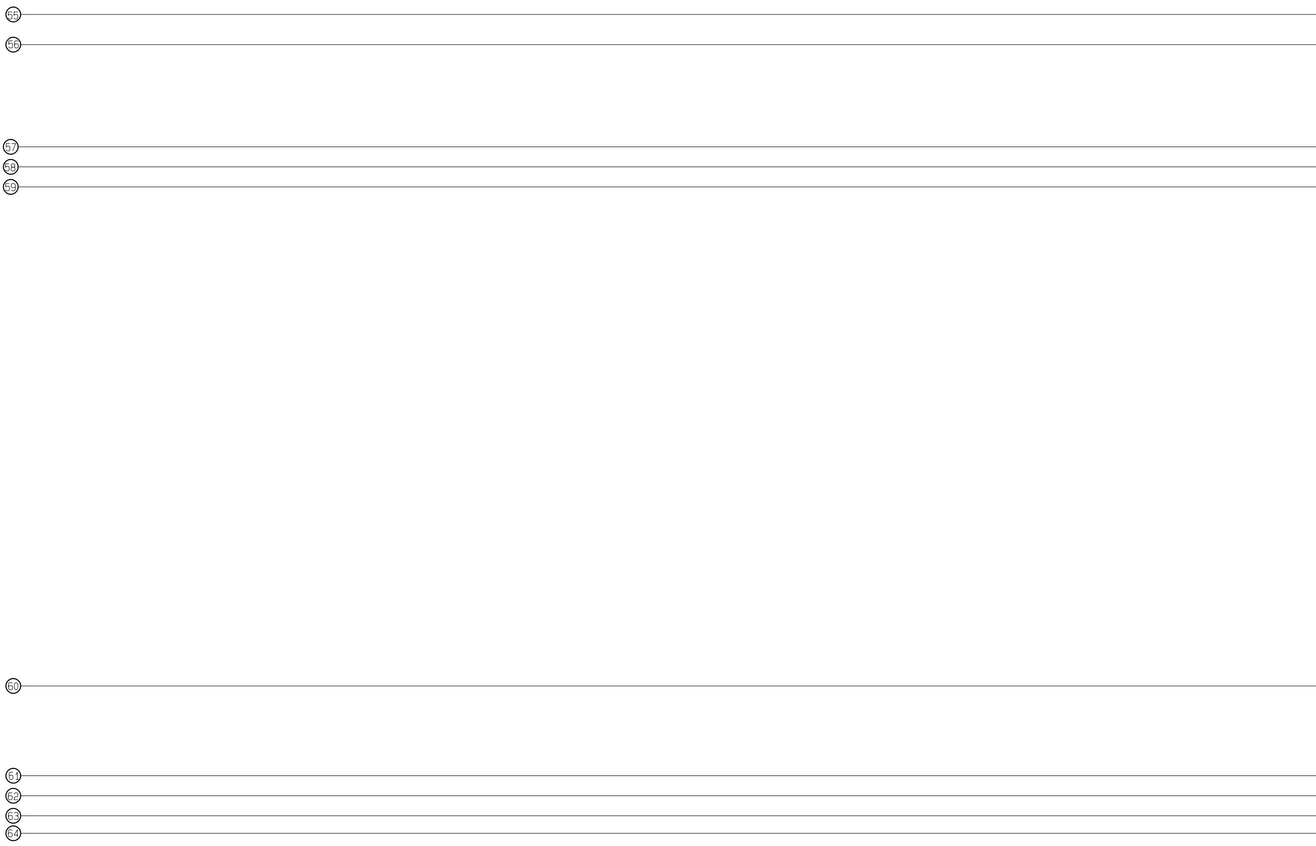
TH-42PHD6/TH-42PHW6
P-BOARD (5 of 6) Schematic Diagram


TO FAN
TO FAN
TO FAN
TO FAN
P30 K1KA03A00172
P31 K1KA03A00172
P32 K1KA03A00172
P33 K1KA03A00172
FAN_SOS
GND
Vcc
MA2C165001VT
D518
D517
D519
D520
R547 22K
R548 22K
R549 22K
R550 22K
C522 0.01u
C524 22u
R539 100K
L502 EXCELDR25V
C578 47u
D4FA2R000001
PR502
R689 100
Q531 2SD23750P
Q532 2SD1819ARL
R651 220
R687 1K
R681 150K
R688 150K
R685 1K
D558 MA5001
D552 MAZ4051NM1KT
Q530 XP0450100L
R686 3300
D553
C580 0.01u
R679 22K
R680 22K
R690 30K
R489 3300
D434 MAZ4051NM1KT
C410 47u
C417 10u
R494 560K
R495 560K
R496 560K
R497 24K
2SD1819ARL
Q421
C421 0.01u
C422 0.01u
Vss
R425 3300
IC403 CNC1S171RLL2
R486 3300
IC404 CNC1S171RLL2
B0JAME000081
MA2C165001VT D507
R694 22
D505
R505 22
C509 100u
C607 1u
C609 0.01u
D506
R625
R514 100K
R538 100K
R501 10K
D555 MAZ40750MF
R510 10
R677 100K
Q537
D559
B1CHND000003
UNR521300L
Q552
R678 22K
C599 0.1u
Q547 2SD11190RL
R601 3.3K
IC503 C0ZBZ0000383
R604 390
R602 10K
R603 10K
C598 47u
R509 10K
R508 1K
P02 P03 P10 P11 P12 P13 D0 D1
IC501 C2ABDA000040
XIN XOUT CNVSS Reset P21 P20 D3 D2
C506 0.01u
C508 0.01u
2SD1819ARL Q535
C583 0.01u
R512 10K
C519
R520 100K
R513 100K
R516 1K
R515 1K
R577 100K
TO D-BOARD (D27)
P27 K1KA09A00099
RUSH_ON/OFF
TV_ON/OFF
M_POWER
STB5V
KILL_SOS
FAN_SOS
PS_SOS
ALL_OFF
GND
C507 0.01u
Q544 UNR511100L
R517 10K
R518 100
R532 10K
C518 47u
R527 22K
D515 MAZ40560MF
Q546 2SD1819ARL
R534 100K
R536 100K
C521 10u
R528 1K
IC502
Vout
Vin
Vss
C0EBH0000190
C505
(50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64)

TH-42PHD6/TH-42PHW6
P-BOARD (5 of 6) and Schematic Diagram

14.10. P-Board (6 of 6) Schematic Diagram

⚠ P-BOARD TNPA2889 (6/6)

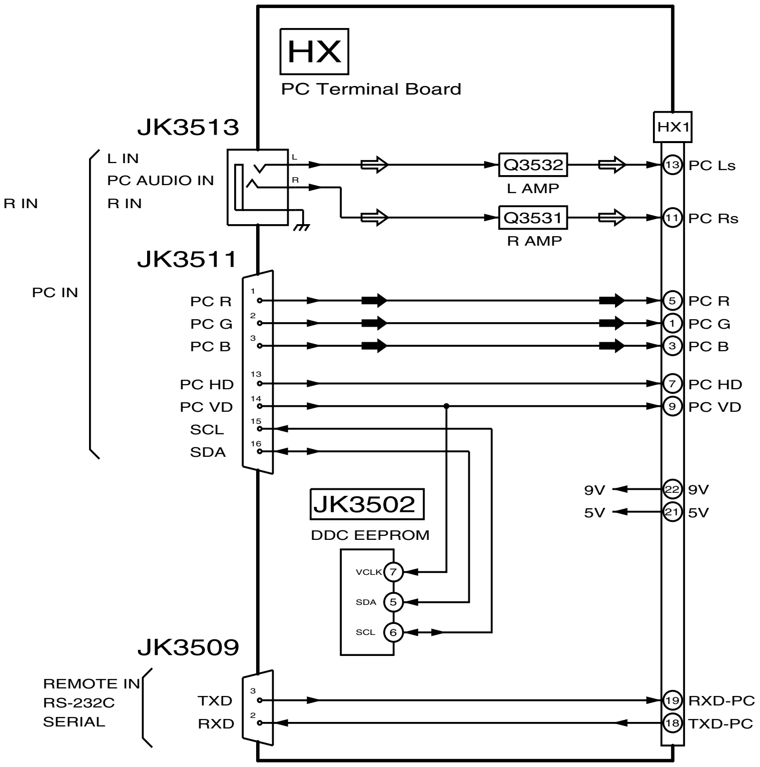

55
56
57
58
59
60
61
62
63
64

31
32
33
34
35
36
37
38
39
40
COLD

TH-42PHD6/TH-42PHW6
P-BOARD (6 of 6) Schematic Diagram

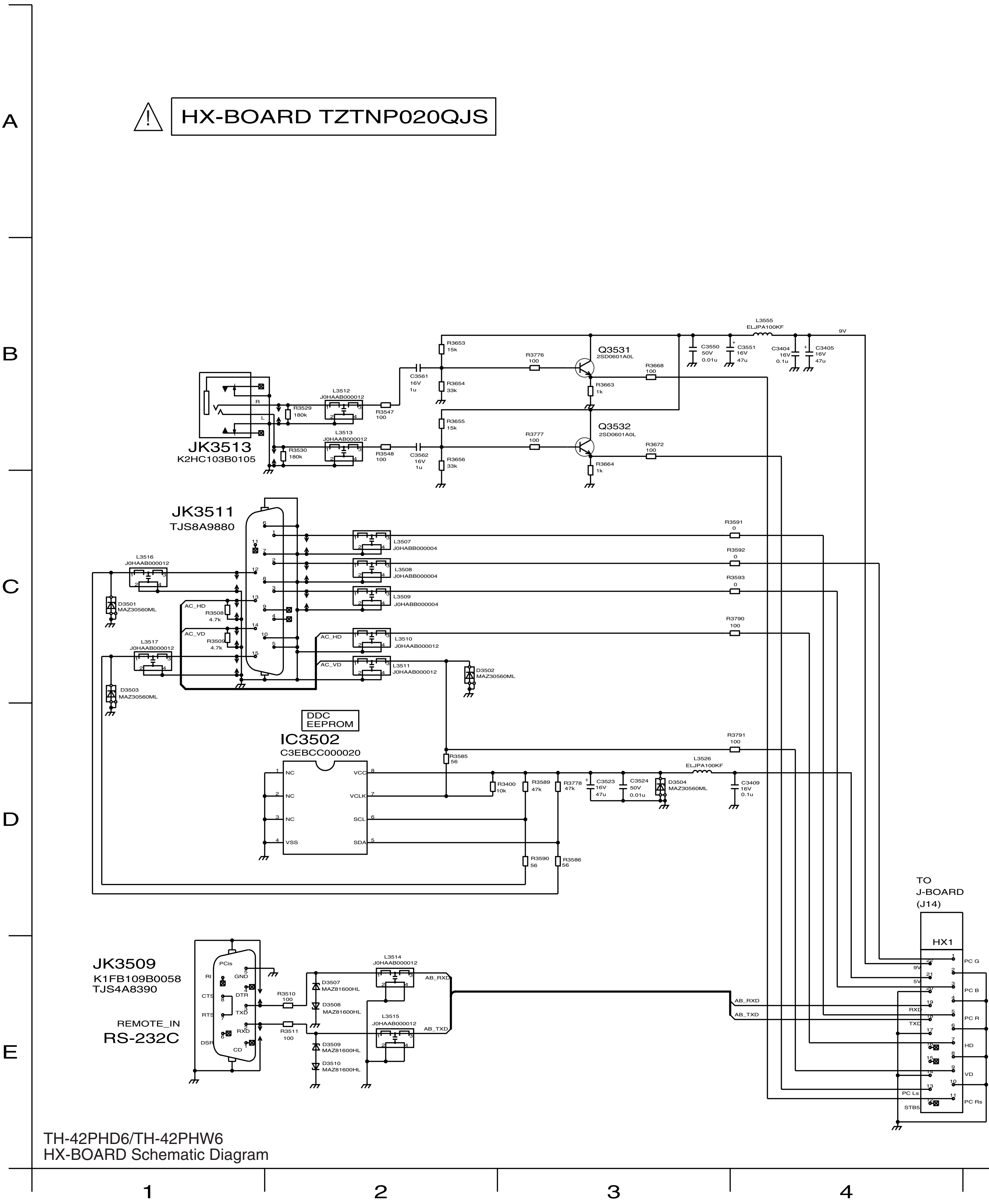
12 13 14 15

14.11. HX-Board Block Diagram

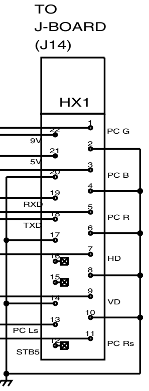

HX
PC Terminal Board
JK3513
HX1
L IN
PC AUDIO IN
R IN
R IN
L
R
Q3532
L AMP
Q3531
R AMP
13
PC Ls
11
PC Rs
JK3511
PC IN
PC R
PC G
PC B
PC HD
PC VD
SCL
SDA
1
2
3
13
14
15
16
5
PC R
1
PC G
3
PC B
7
PC HD
9
PC VD
9V
22
9V
5V
21
5V
JK3502
DDC EEPROM
VCLK
7
SDA
5
SCL
6
JK3509
REMOTE IN
RS-232C
SERIAL
TXD
RXD
3
2
19
RXD-PC
18
TXD-PC

TH-42PHD6/TH-42PHW6
HX-BOARD Block Diagram

14.12. HX-Board Schematic Diagram


A
B
C
D
E
1
2
3
4
HX-BOARD TZTNP020QJS
JK3513
K2HC103B0105
R
L
R3529
180k
R3530
180k
L3512
J0HAAB000012
L3513
J0HAAB000012
R3547
100
R3548
100
C3561
16V
1u
C3562
16V
1u
R3653
15k
R3654
33k
R3655
15k
R3656
33k
R3776
100
R3777
100
Q3531
2SD0601A0L
Q3532
2SD0601A0L
R3663
1k
R3664
1k
R3668
100
R3672
100
C3550
50V
0.01u
C3551
16V
47u
L3555
ELJPA100KF
C3404
16V
0.1u
C3405
16V
47u
9V
JK3511
TJS8A9880
L3516
J0HAAB000012
D3501
MAZ30560ML
AC_HD
R3508
4.7k
AC_VD
R3509
4.7k
L3517
J0HAAB000012
D3503
MAZ30560ML
L3507
J0HABB000004
L3508
J0HABB000004
L3509
J0HABB000004
AC_HD
L3510
J0HAAB000012
AC_VD
L3511
J0HAAB000012
D3502
MAZ30560ML
R3591
0
R3592
0
R3593
0
R3790
100
DDC
EEPROM
IC3502
C3EBCC000020
NC
NC
NC
VSS
VCC
VCLK
SCL
SDA
R3585
56
R3791
100
R3400
10k
R3589
47k
R3778
47k
C3523
16V
47u
C3524
50V
0.01u
D3504
MAZ30560ML
L3526
ELJPA100KF
C3409
16V
0.1u
R3590
56
R3586
56
TO
J-BOARD
(J14)
HX1
PC G
9V
5V
PC B
RXD
PC R
TXD
HD
VD
PC Ls
STB5
PC Rs
JK3509
K1FB109B0058
TJS4A8390
REMOTE_IN
RS-232C
PCis
RI
GND
CTS
DTR
RTS
TXD
RXD
DSR
CD
R3510
100
R3511
100
D3507
MAZ81600HL
D3508
MAZ81600HL
D3509
MAZ81600HL
D3510
MAZ81600HL
L3514
J0HAAB000012
L3515
J0HAAB000012
AB_RXD
AB_TXD
AB_RXD
AB_TXD

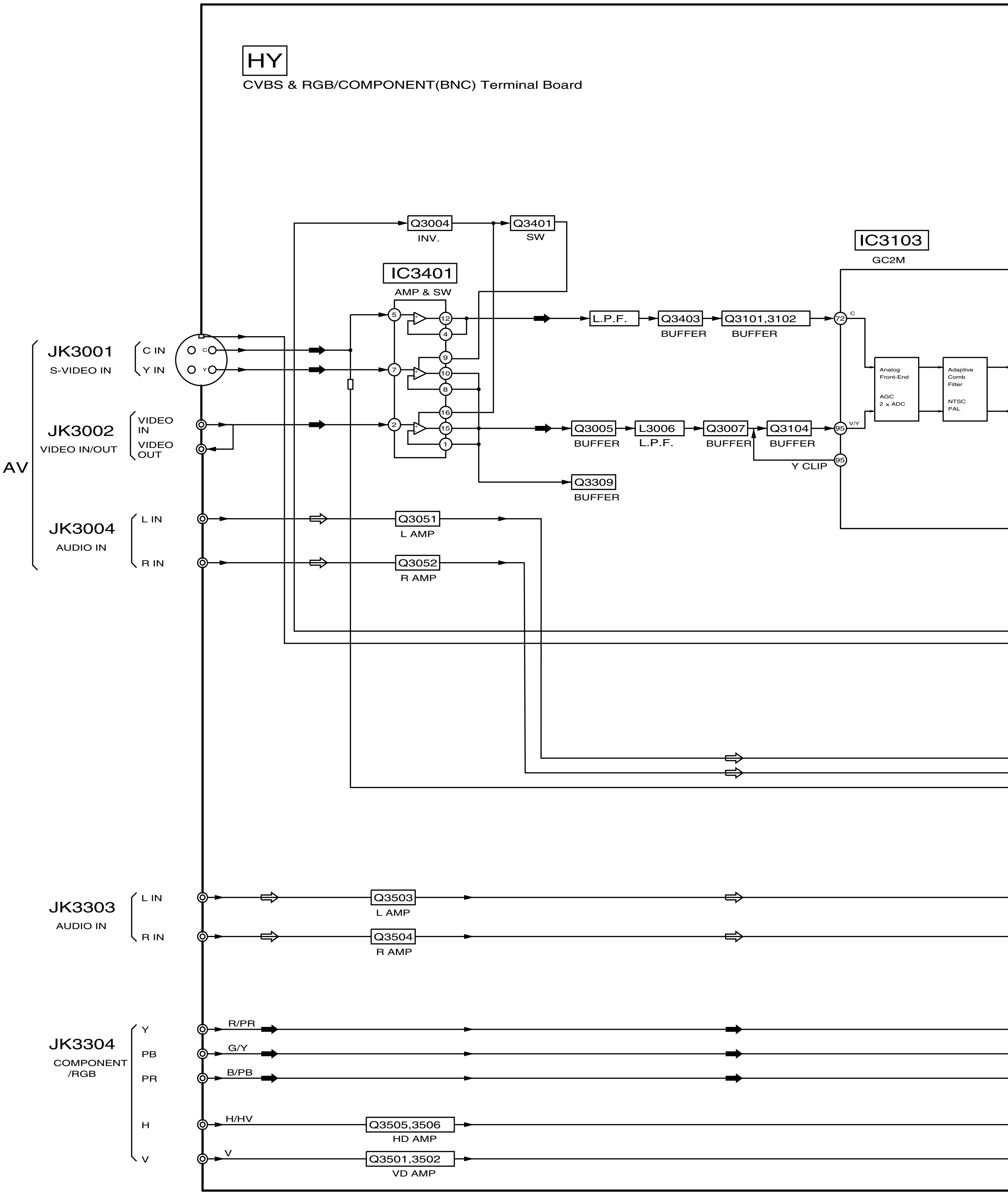
TH-42PHD6/TH-42PHW6
HX-BOARD Schematic Diagram


TO
J-BOARD
(J14)
HX1
1
2
3
4
5
6
7
8
9
10
11
22
21
20
19
18
17
16
15
14
13
12
9V
5V
RXD
TXD
PC Ls
STB5
PC G
PC B
PC R
HD
VD
PC Rs

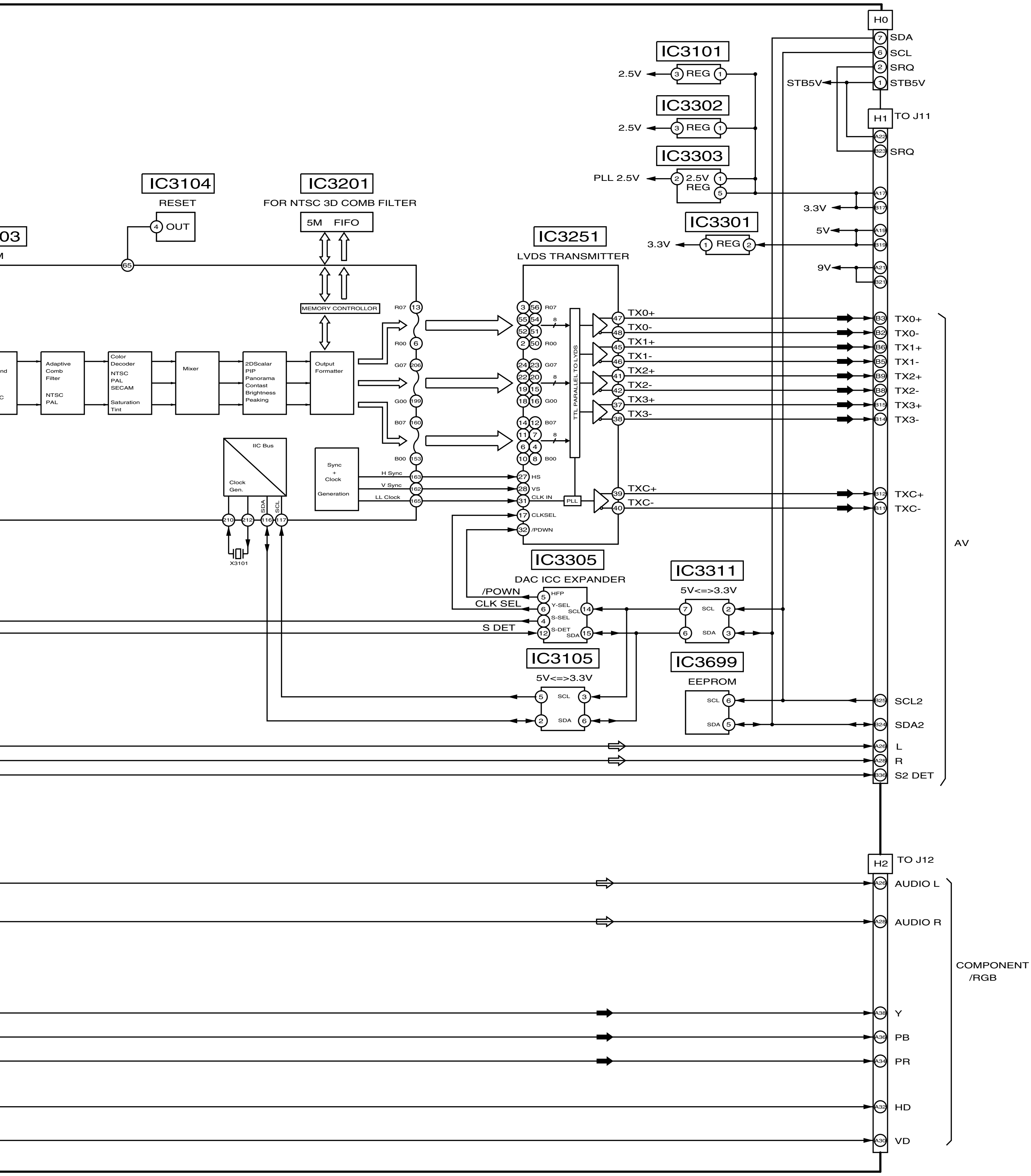
TH-42PHD6/TH-42PHW6
HX-BOARD Schematic Diagram

5 6 7 8

14.13. HY-Board Block Diagram

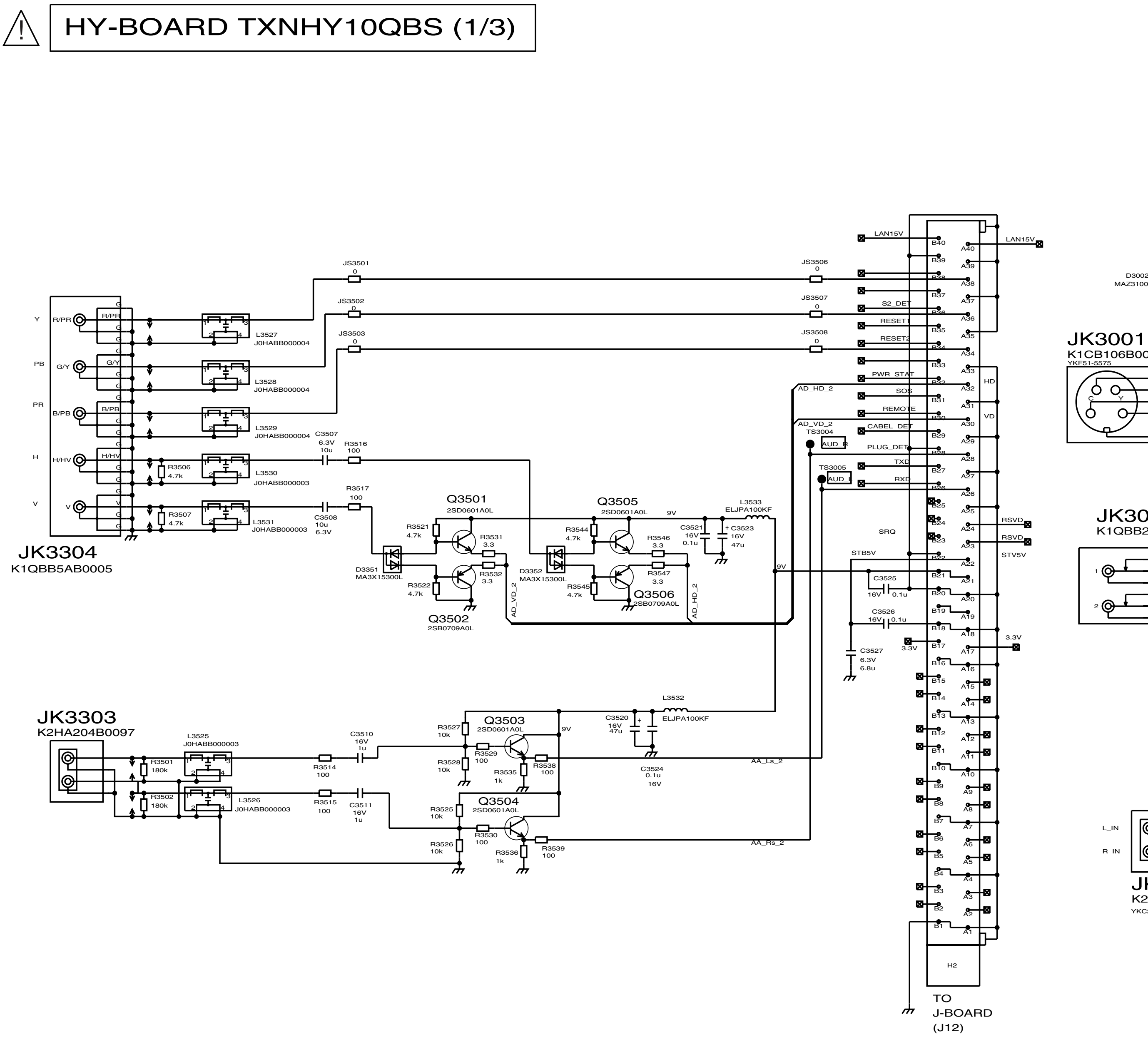

HY
CVBS & RGB/COMPONENT(BNC) Terminal Board
Q3004
INV.
Q3401
SW
IC3103
GC2M
IC3401
AMP & SW
5
12
4
9
7
10
8
16
2
15
1
L.P.F.
Q3403
BUFFER
Q3101,3102
BUFFER
72
C
Analog
Front-End
AGC
2 x ADC
Adaptive
Comb
Filter
NTSC
PAL
V/Y
95
Q3005
BUFFER
L3006
L.P.F.
Q3007
BUFFER
Q3104
BUFFER
Y CLIP
Q3309
BUFFER
JK3001
S-VIDEO IN
C IN
Y IN
C
Y
JK3002
VIDEO IN/OUT
VIDEO IN
VIDEO OUT
AV
JK3004
AUDIO IN
L IN
R IN
Q3051
L AMP
Q3052
R AMP
JK3303
AUDIO IN
L IN
R IN
Q3503
L AMP
Q3504
R AMP
JK3304
COMPONENT /RGB
Y
PB
PR
H
V
R/PR
G/Y
B/PB
H/HV
V
Q3505,3506
HD AMP
Q3501,3502
VD AMP

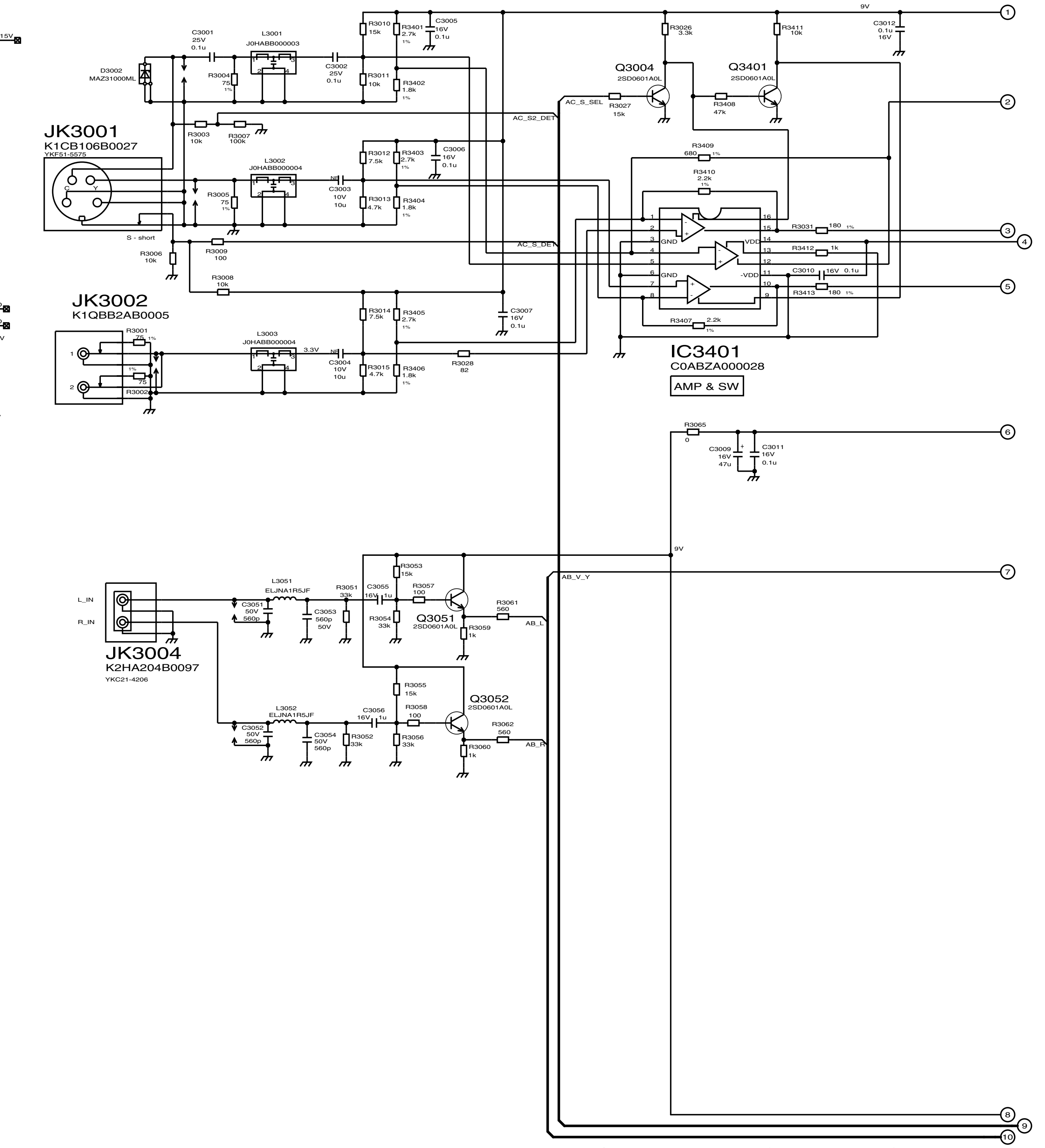
TH-42PHD6/TH-42PHW6
HY-BOARD Block Diagram


IC3101
REG
2.5V
IC3302
REG
2.5V
IC3303
2.5V REG
PLL 2.5V
IC3301
REG
3.3V
IC3104
RESET
OUT
IC3201
FOR NTSC 3D COMB FILTER
5M FIFO
MEMORY CONTROLLOR
IC3251
LVDS TRANSMITTER
TTL PARALLEL TO LVDS
PLL
03
M
Adaptive Comb Filter
NTSC PAL
Color Decoder
NTSC PAL SECAM
Saturation Tint
Mixer
2DScalar PIP Panorama Contast Brightness Peaking
Output Formatter
IIC Bus
Clock Gen.
SDA
SCL
X3101
Sync + Clock Generation
H Sync
V Sync
LL Clock
R07
R00
G07
G00
B07
B00
HS
VS
CLK IN
CLKSEL
/PDWN
TX0+
TX0-
TX1+
TX1-
TX2+
TX2-
TX3+
TX3-
TXC+
TXC-
IC3305
DAC ICC EXPANDER
HFP
Y-SEL
S-SEL
S-DET
/POWN
CLK SEL
S DET
IC3311
5V<=>3.3V
IC3105
5V<=>3.3V
IC3699
EEPROM
SCL
SDA
H0
SDA
SCL
SRQ
STB5V
STB5V
H1
TO J11
SRQ
3.3V
5V
9V
SCL2
SDA2
L
R
S2 DET
AV
H2
TO J12
AUDIO L
AUDIO R
COMPONENT /RGB
Y
PB
PR
HD
VD

TH-42PHD6/TH-42PHW6
HY-BOARD Block Diagram

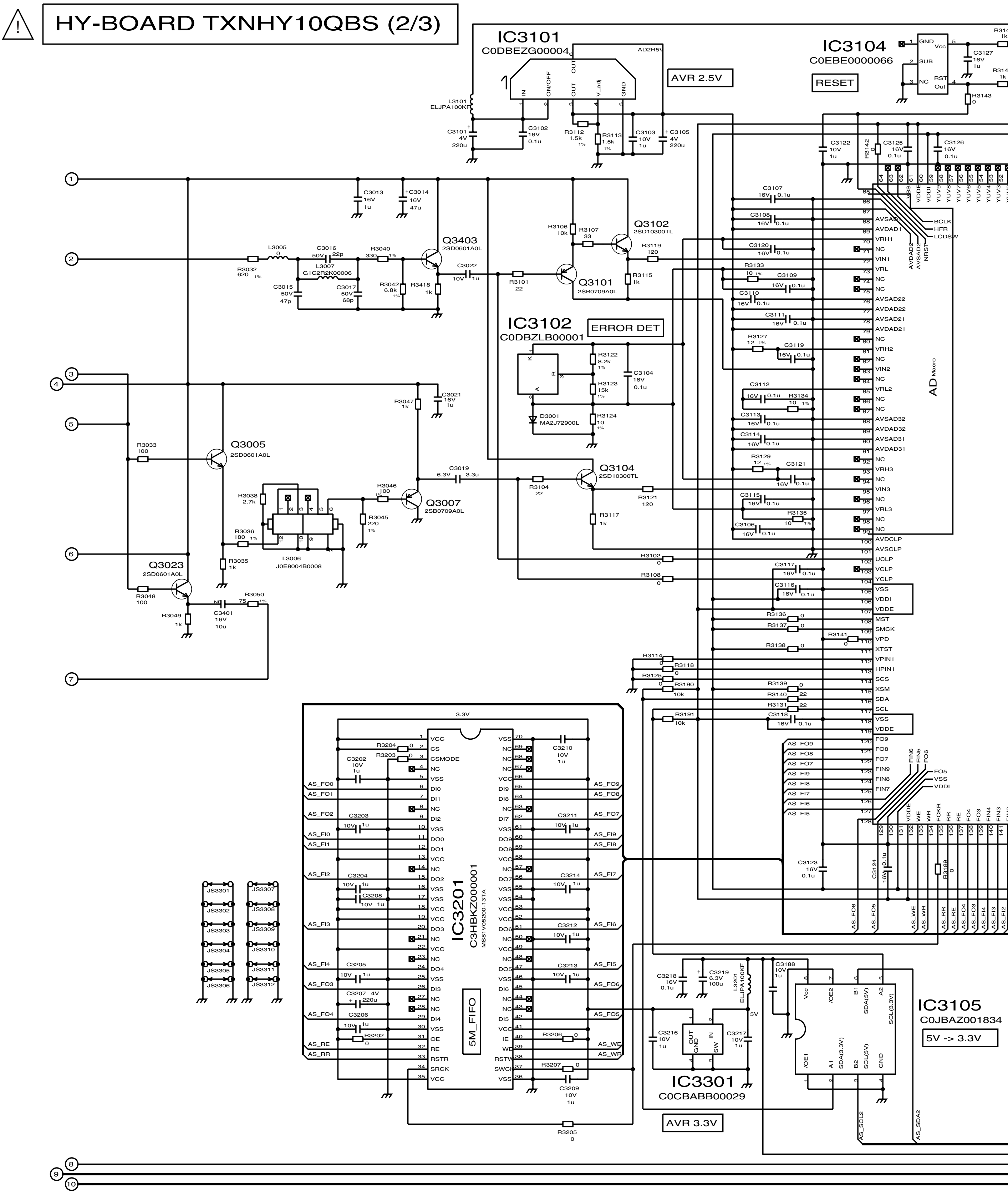
14.14. HY-Board (1 of 3) Schematic Diagram


HY-BOARD TXNHY10QBS (1/3)
A
B
C
D
E
1
2
3
4
JK3304
K1QBB5AB0005
Y
PB
PR
H
V
R/PR
G/Y
B/PB
H/HV
L3527 J0HABB000004
L3528 J0HABB000004
L3529 J0HABB000004
L3530 J0HABB000003
L3531 J0HABB000003
R3506 4.7k
R3507 4.7k
JS3501 0
JS3502 0
JS3503 0
C3507 6.3V 10u
C3508 10u 6.3V
R3516 100
R3517 100
Q3501 2SD0601A0L
Q3502 2SB0709A0L
Q3505 2SD0601A0L
Q3506 2SB0709A0L
R3521 4.7k
R3522 4.7k
R3531 3.3
R3532 3.3
R3544 4.7k
R3545 4.7k
R3546 3.3
R3547 3.3
D3351 MA3X15300L
D3352 MA3X15300L
AD_VD_2
AD_HD_2
9V
C3521 16V 0.1u
C3523 16V 47u
L3533 ELJPA100KF
JK3303
K2HA204B0097
L3525 J0HABB000003
L3526 J0HABB000003
R3501 180k
R3502 180k
R3514 100
R3515 100
C3510 16V 1u
C3511 16V 1u
Q3503 2SD0601A0L
Q3504 2SD0601A0L
R3527 10k
R3528 10k
R3525 10k
R3526 10k
R3529 100
R3530 100
R3535 1k
R3536 1k
R3538 100
R3539 100
C3520 16V 47u
C3524 0.1u 16V
L3532 ELJPA100KF
AA_Ls_2
AA_Rs_2
JS3506 0
JS3507 0
JS3508 0
LAN15V
S2_DET
RESET1
RESET2
PWR_STAT
SOS
REMOTE
CABEL_DET
PLUG_DET
TXD
RXD
TS3004
TS3005
AUD_R
AUD_L
SRQ
STB5V
C3525 16V 0.1u
C3526 16V 0.1u
C3527 6.3V 6.8u
3.3V
HD
VD
RSVD
STV5V
B40 … B1
A40 … A1
H2
TO J-BOARD (J12)
D3002 MAZ3100
JK3001
K1CB106B00
YKF51-5575
JK30
K1QBB2
L_IN
R_IN
JI
K2
YKC

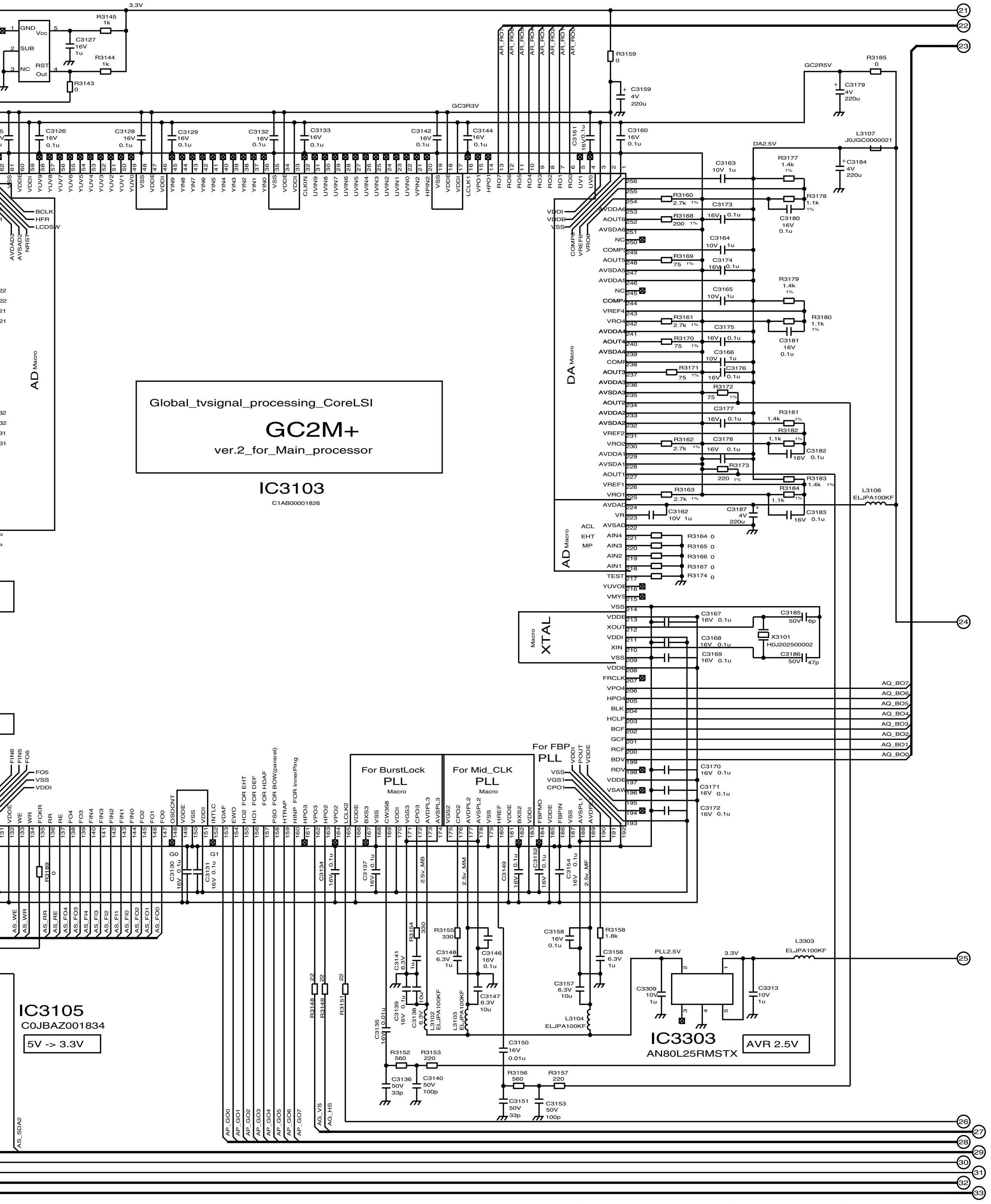

JK3001
K1CB106B0027
YKF51-5575
JK3002
K1QBB2AB0005
JK3004
K2HA204B0097
YKC21-4206
IC3401
C0ABZA000028
AMP & SW
Q3004
2SD0601A0L
Q3401
2SD0601A0L
Q3051
2SD0601A0L
Q3052
2SD0601A0L
D3002
MAZ31000ML
L3001
J0HABB000003
L3002
J0HABB000004
L3003
J0HABB000004
L3051
ELJNA1R5JF
L3052
ELJNA1R5JF
AC_S_SEL
AC_S2_DET
AC_S_DET
AB_V_Y
AB_L
AB_R
L_IN
R_IN
S - short
9V
15V
3.3V
GND
VDD
-VDD
R3003 10k
R3004 75
R3005 75
R3006 10k
R3007 100k
R3008 10k
R3009 100
R3001 75
R3002 75
R3010 15k
R3011 10k
R3012 7.5k
R3013 4.7k
R3014 7.5k
R3015 4.7k
R3401 2.7k
R3402 1.8k
R3403 2.7k
R3404 1.8k
R3405 2.7k
R3406 1.8k
R3026 3.3k
R3027 15k
R3028 82
R3031 180
R3411 10k
R3408 47k
R3409 680
R3410 2.2k
R3412 1k
R3413 180
R3407 2.2k
R3065 0
R3051 33k
R3052 33k
R3053 15k
R3054 33k
R3055 15k
R3056 33k
R3057 100
R3058 100
R3059 1k
R3060 1k
R3061 560
R3062 560
C3001 25V 0.1u
C3002 25V 0.1u
C3003 10V 10u
C3004 10V 10u
C3005 16V 0.1u
C3006 16V 0.1u
C3007 16V 0.1u
C3009 16V 47u
C3010 16V 0.1u
C3011 16V 0.1u
C3012 0.1u 16V
C3051 50V 560p
C3052 50V 560p
C3053 560p 50V
C3054 50V 560p
C3055 16V 1u
C3056 16V 1u
1%
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
5
6
7
8

TH-42PHD6/TH-42PHW6 HY-BOARD (1 of 3) Schematic Diagram

14.15. HY-Board (2 of 3) Schematic Diagram


HY-BOARD TXNHY10QBS (2/3)
IC3101
C0DBEZG00004
AVR 2.5V
IC3104
C0EBE0000066
RESET
IC3102
C0DBZLB00001
ERROR DET
Q3403
2SD0601A0L
Q3102
2SD1030OTL
Q3101
2SB0709A0L
Q3005
2SD0601A0L
Q3104
2SD1030OTL
Q3007
2SB0709A0L
Q3023
2SD0601A0L
D3001
MA2J72900L
L3006
J0E8004B0008
L3101
ELJPA100KF
L3007
G1C2R2K00006
IC3201
C3HBKZ000001
MS81V05200-13TA
5M_FIFO
IC3301
C0CBABB00029
AVR 3.3V
IC3105
C0JBAZ001834
5V -> 3.3V
AD Macro
3.3V
5V
1
2
3
4
5
6
7
8
9
10
8
9
10
11
12

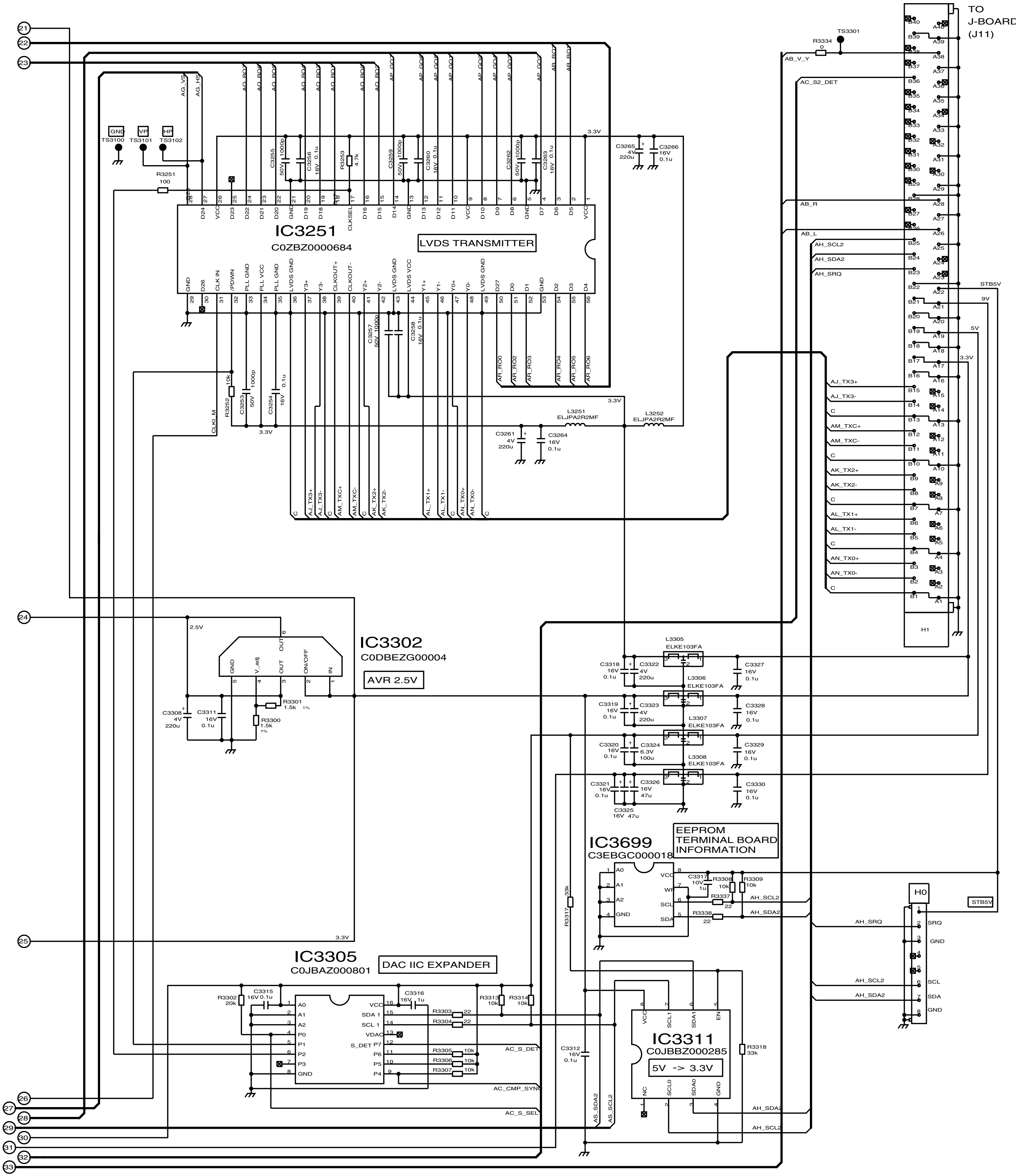
TH-42PHD6/TH-42PHW6 HY-BOARD (2 of 3) Schematic Diagram


3.3V
R3145 1k
C3127 16V 1u
R3144 1k
R3143 0
GND Vcc
SUB
NC RST Out
GC3R3V
C3126 16V 0.1u
C3128 16V 0.1u
C3129 16V 0.1u
C3132 16V 0.1u
C3133 16V 0.1u
C3142 16V 0.1u
C3144 16V 0.1u
C3161 16V 0.1u
C3160 16V 0.1u
R3159 0
C3159 4V 220u
GC2R5V
R3185 0
C3179 4V 220u
L3107 J0JGC0000021
DA2.5V
C3184 4V 220u
AD Macro
DA Macro
XTAL Macro
Global_tvsignal_processing_CoreLSI
GC2M+
ver.2_for_Main_processor
IC3103
C1AB00001826
BCLK
HFR
LCDSW
For BurstLock PLL Macro
For Mid_CLK PLL Macro
For FBP PLL
X3101 H0J202500002
C3185 50V 6p
C3186 50V 47p
L3108 ELJPA100KF
L3303 ELJPA100KF
PLL2.5V
3.3V
C3309 10V 1u
C3313 10V 1u
IC3303
AN80L25RMSTX
AVR 2.5V
IC3105
C0JBAZ001834
5V -> 3.3V
L3102 ELJPA100KF
L3103 ELJPA100KF
L3104 ELJPA100KF
R3152 560
R3153 220
R3156 560
R3157 220
C3136 50V 33p
C3140 50V 100p
C3151 50V 33p
C3153 50V 100p
C3150 16V 0.01u
R3148 22
R3149 22
R3151 22
AQ_BO7
AQ_BO6
AQ_BO5
AQ_BO4
AQ_BO3
AQ_BO2
AQ_BO1
AQ_BO0
AS_WE
AS_WR
AS_RR
AS_RE
AS_FO4
AS_FO3
AS_FI4
AS_FI3
AS_FI2
AS_FI1
AS_FI0
AS_FO2
AS_FO1
AS_FO0
AS_SDA2
AP_GO0
AP_GO1
AP_GO2
AP_GO3
AP_GO4
AP_GO5
AP_GO6
AP_GO7
AG_VS
AG_HS
AR_RO
21
22
23
24
25
26
27
28
29
30
31
32
33

TH-42PHD6/TH-42PHW6 HY-BOARD (2 of 3)Schematic Diagram

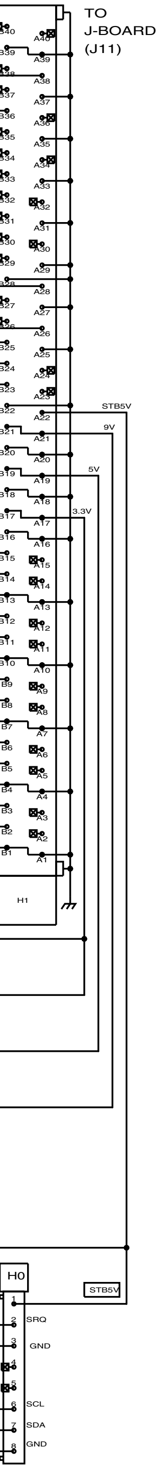
12	13	14	15

14.16. HY-Board (3 of 3) Schematic Diagram


IC3251
C0ZBZ0000684
LVDS TRANSMITTER
IC3302
C0DBEZG00004
AVR 2.5V
IC3699
C3EBGC000018
EEPROM
TERMINAL BOARD
INFORMATION
IC3305
C0JBAZ000801
DAC IIC EXPANDER
IC3311
C0JBBZ000285
5V -> 3.3V
TO
J-BOARD
(J11)
H1
H0
TS3100
TS3101
TS3102
TS3301
GND
VP
HP
L3251
ELJPA2R2MF
L3252
ELJPA2R2MF
L3305
ELKE103FA
L3306
ELKE103FA
L3307
ELKE103FA
L3308
ELKE103FA
AB_V_Y
AC_S2_DET
AB_R
AB_L
AH_SCL2
AH_SDA2
AH_SRQ
STB5V
9V
5V
3.3V
2.5V
AJ_TX3+
AJ_TX3-
AM_TXC+
AM_TXC-
AK_TX2+
AK_TX2-
AL_TX1+
AL_TX1-
AN_TX0+
AN_TX0-
AC_S_DET
AC_CMP_SYNC
AC_S_SEL
AS_SDA2
AS_SCL2
CLKI_M
21
22
23
24
25
26
27
28
29
30
31
32
33

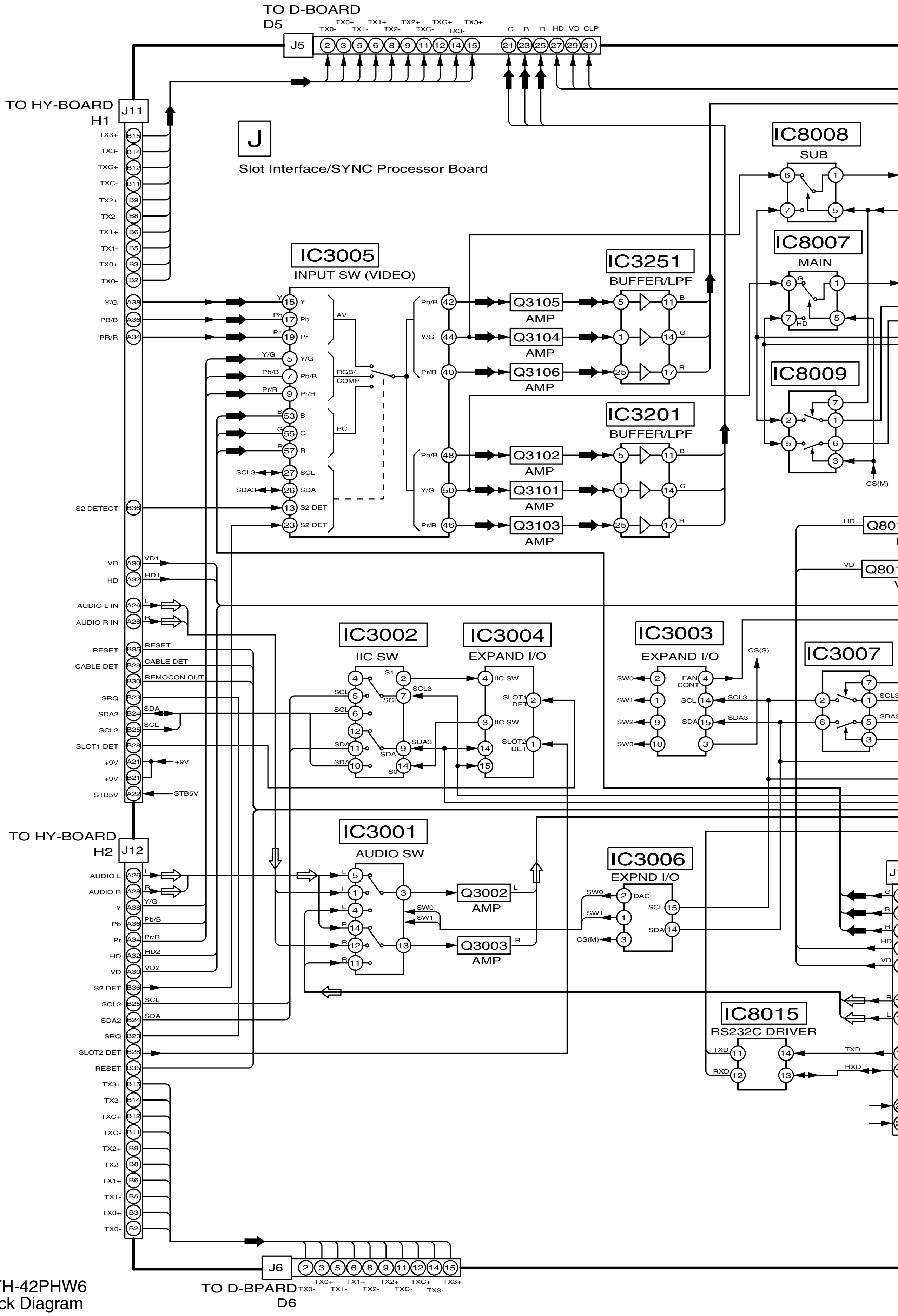
TH-42PHD6/TH-42PHW6 HY-BOARD (3 of 3) Schematic Diagram

16 17 18 19


TO
J-BOARD
(J11)
A40
A39
A38
A37
A36
A35
A34
A33
A32
A31
A30
A29
A28
A27
A26
A25
A24
A23
A22
A21
A20
A19
A18
A17
A16
A15
A14
A13
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
B9
B8
B7
B6
B5
B4
B3
B2
B1
STB5V
9V
5V
3.3V
H1
H0
STB5V
1
2 SRQ
3 GND
4
5
6 SCL
7 SDA
8 GND

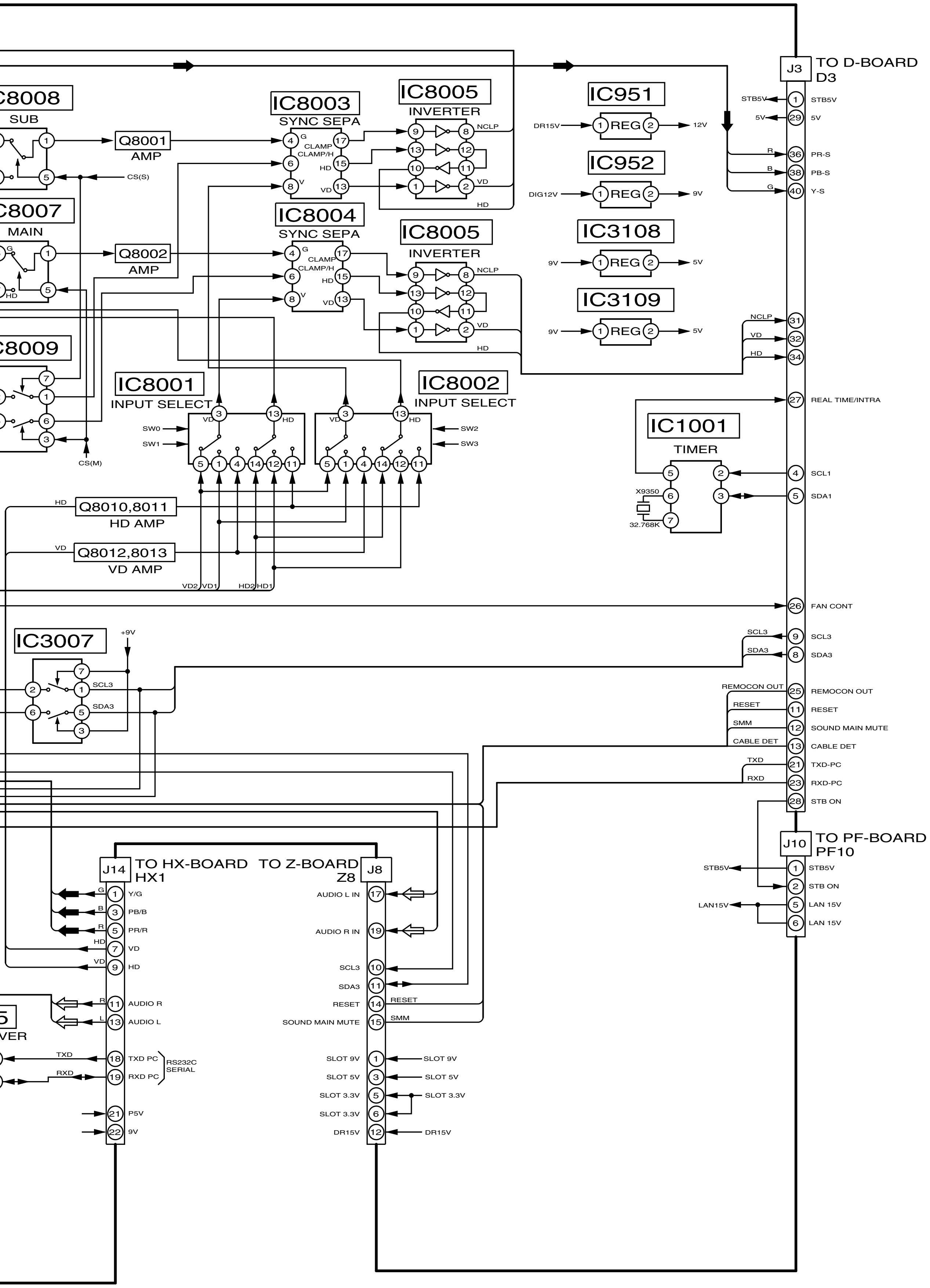
⚠ HY-BOARD TXNHY10QBS (3/3)

14.17. J-Board Block Diagram



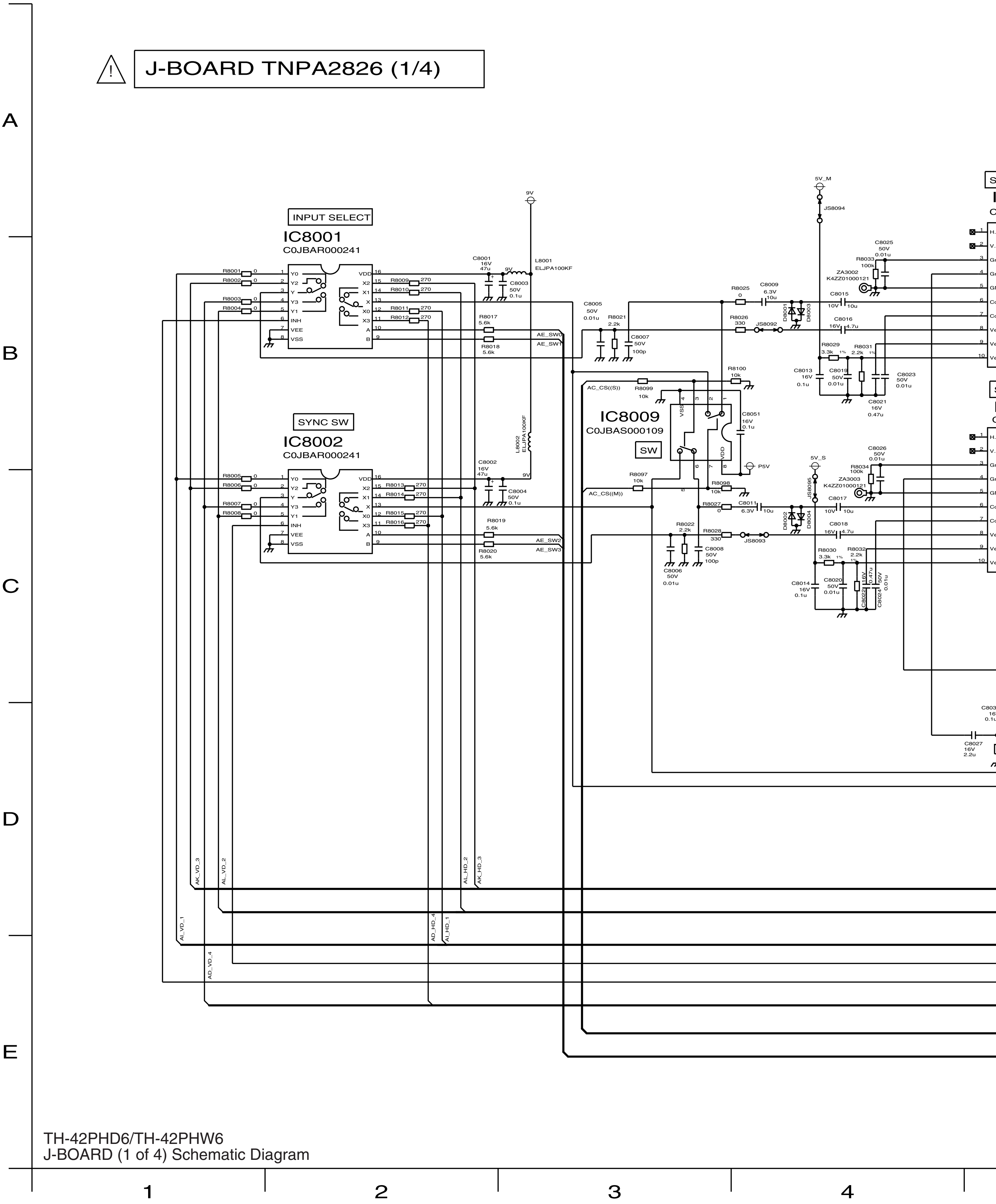
TO D-BOARD D5
J5
TX0+ TX1+ TX2+ TXC+ TX3+
TX0- TX1- TX2- TXC- TX3-
G B R HD VD CLP
TO HY-BOARD H1
J11
J
Slot Interface/SYNC Processor Board
TX3+ TX3- TXC+ TXC- TX2+ TX2- TX1+ TX1- TX0+ TX0-
Y/G PB/B PR/R
S2 DETECT
VD HD
AUDIO L IN
AUDIO R IN
RESET
CABLE DET
REMOCON OUT
SRQ
SDA2
SCL2
SLOT1 DET
+9V
+9V
STB5V
IC3005
INPUT SW (VIDEO)
AV
RGB/COMP
PC
SCL3
SDA3
S2 DET
IC3251
BUFFER/LPF
IC3201
BUFFER/LPF
Q3105 AMP
Q3104 AMP
Q3106 AMP
Q3102 AMP
Q3101 AMP
Q3103 AMP
IC8008
SUB
IC8007
MAIN
IC8009
CS(M)
HD
VD
Q80
IC3002
IIC SW
IC3004
EXPAND I/O
IIC SW
SLOT1 DET
SLOT2 DET
IC3003
EXPAND I/O
FAN CONT
SW0 SW1 SW2 SW3
SCL SDA
CS(S)
IC3007
TO HY-BOARD H2
J12
AUDIO L
AUDIO R
Y Pb Pr HD VD
S2 DET
SCL2
SDA2
SRQ
SLOT2 DET
RESET
IC3001
AUDIO SW
Q3002 AMP
Q3003 AMP
SW0 SW1
IC3006
EXPND I/O
DAC
CS(M)
IC8015
RS232C DRIVER
TXD
RXD
J6
TO D-BPARD D6

TH-42PHD6/TH-42PHW6
J-BOARD Block Diagram


C8008
SUB
Q8001
AMP
CS(S)
C8007
MAIN
Q8002
AMP
HD
C8009
CS(M)
IC8003
SYNC SEPA
CLAMP
CLAMP/H
HD
VD
IC8004
SYNC SEPA
IC8005
INVERTER
NCLP
VD
HD
IC951
DR15V
REG
12V
IC952
DIG12V
9V
IC3108
9V
5V
IC3109
J3
TO D-BOARD
D3
STB5V
5V
PR-S
PB-S
Y-S
NCLP
VD
HD
REAL TIME/INTRA
IC8001
INPUT SELECT
IC8002
INPUT SELECT
SW0
SW1
SW2
SW3
IC1001
TIMER
X9350
32.768K
SCL1
SDA1
Q8010,8011
HD AMP
Q8012,8013
VD AMP
VD2
VD1
HD2
HD1
FAN CONT
IC3007
+9V
SCL3
SDA3
REMOCON OUT
RESET
SMM
SOUND MAIN MUTE
CABLE DET
TXD
RXD
TXD-PC
RXD-PC
STB ON
J10
TO PF-BOARD
PF10
STB5V
STB ON
LAN15V
LAN 15V
J14
TO HX-BOARD
HX1
Y/G
PB/B
PR/R
VD
HD
AUDIO R
AUDIO L
VER
TXD PC
RXD PC
RS232C SERIAL
P5V
9V
TO Z-BOARD
Z8
J8
AUDIO L IN
AUDIO R IN
SCL3
SDA3
RESET
SOUND MAIN MUTE
SLOT 9V
SLOT 5V
SLOT 3.3V
DR15V

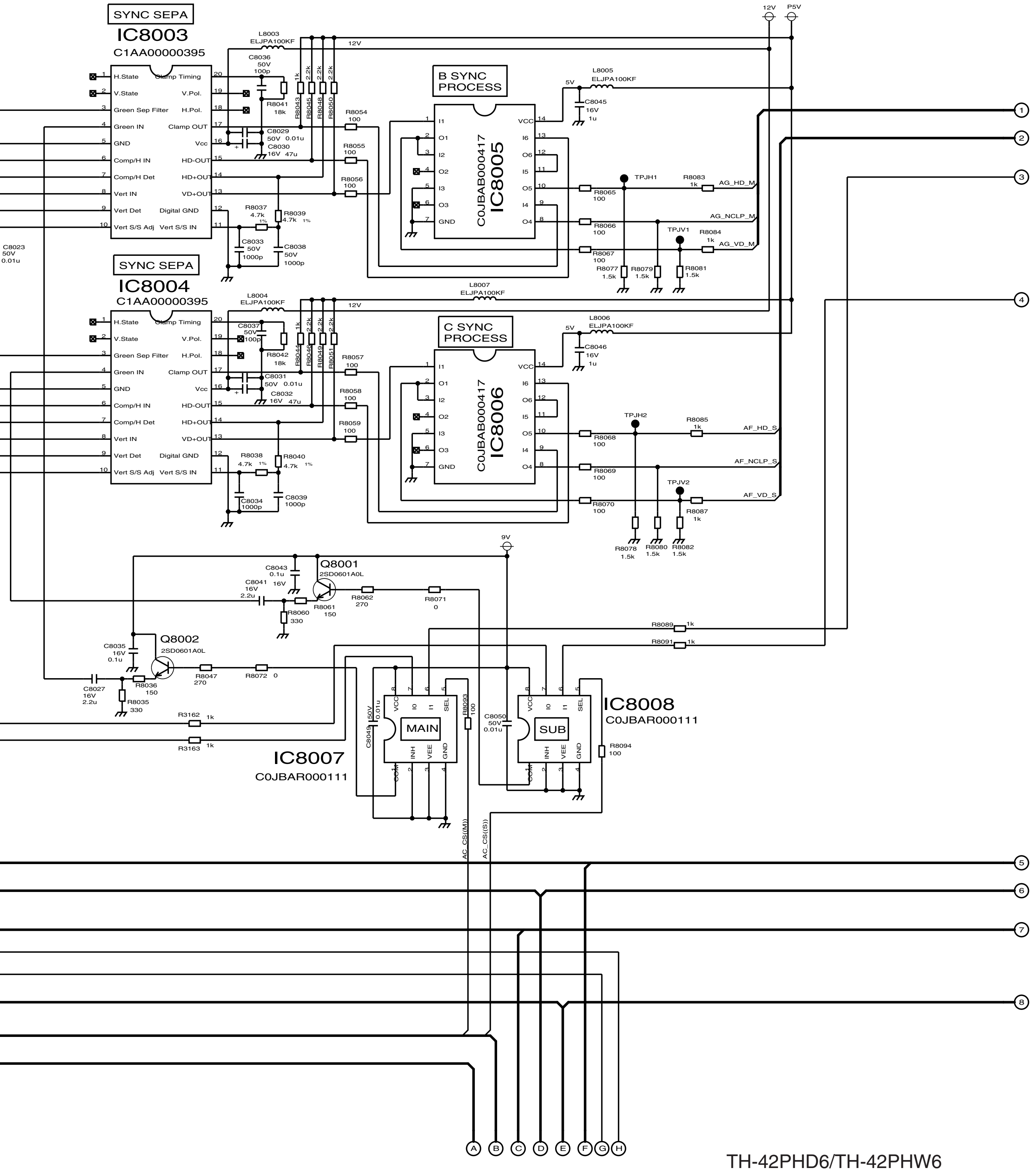
TH-42PHD6/TH-42PHW6
J-BOARD Block Diagram

14.18. J-Board (1 of 4) Schematic Diagram



J-BOARD TNPA2826 (1/4)
A
B
C
D
E
1
2
3
4
INPUT SELECT
IC8001
C0JBAR000241
SYNC SW
IC8002
C0JBAR000241
IC8009
C0JBAS000109
SW
9V
5V_M
5V_S
P5V
L8001
ELJPA100KF
L8002
ELJPA100KF
C8001
16V
47u
C8002
16V
47u
C8003
50V
0.1u
C8004
50V
0.1u
C8005
50V
0.01u
C8006
50V
0.01u
C8007
50V
100p
C8008
50V
100p
C8009
6.3V
10u
C8011
6.3V
10u
C8013
16V
0.1u
C8014
16V
0.1u
C8015
10V
10u
C8016
16V
4.7u
C8017
10V
10u
C8018
16V
4.7u
C8019
50V
0.01u
C8020
50V
0.01u
C8021
16V
0.47u
C8022
16V
0.47u
C8023
50V
0.01u
C8024
50V
0.01u
C8025
50V
0.01u
C8026
50V
0.01u
C8027
16V
2.2u
C8051
16V
0.1u
R8001 0
R8002 0
R8003 0
R8004 0
R8005 0
R8006 0
R8007 0
R8008 0
R8009 270
R8010 270
R8011 270
R8012 270
R8013 270
R8014 270
R8015 270
R8016 270
R8017 5.6k
R8018 5.6k
R8019 5.6k
R8020 5.6k
R8021 2.2k
R8022 2.2k
R8025 0
R8026 330
R8027 0
R8028 330
R8029 3.3k 1%
R8030 3.3k 1%
R8031 2.2k 1%
R8032 2.2k 1%
R8033 100k
R8034 100k
R8097 10k
R8098 10k
R8099 10k
R8100 10k
JS8092
JS8093
JS8094
JS8095
D8001
D8002
D8003
D8004
ZA3002
K4ZZ01000121
ZA3003
K4ZZ01000121
Y0
Y2
Y
Y3
Y1
INH
VEE
VSS
VDD
X2
X1
X
X0
X3
A
B
VSS
VDD
AE_SW0
AE_SW1
AE_SW2
AE_SW3
AC_CS((S))
AC_CS((M))
AK_VD_3
AL_VD_2
AL_HD_2
AK_HD_3
AI_VD_1
AD_HD_4
AI_HD_1
AD_VD_4

TH-42PHD6/TH-42PHW6
J-BOARD (1 of 4) Schematic Diagram

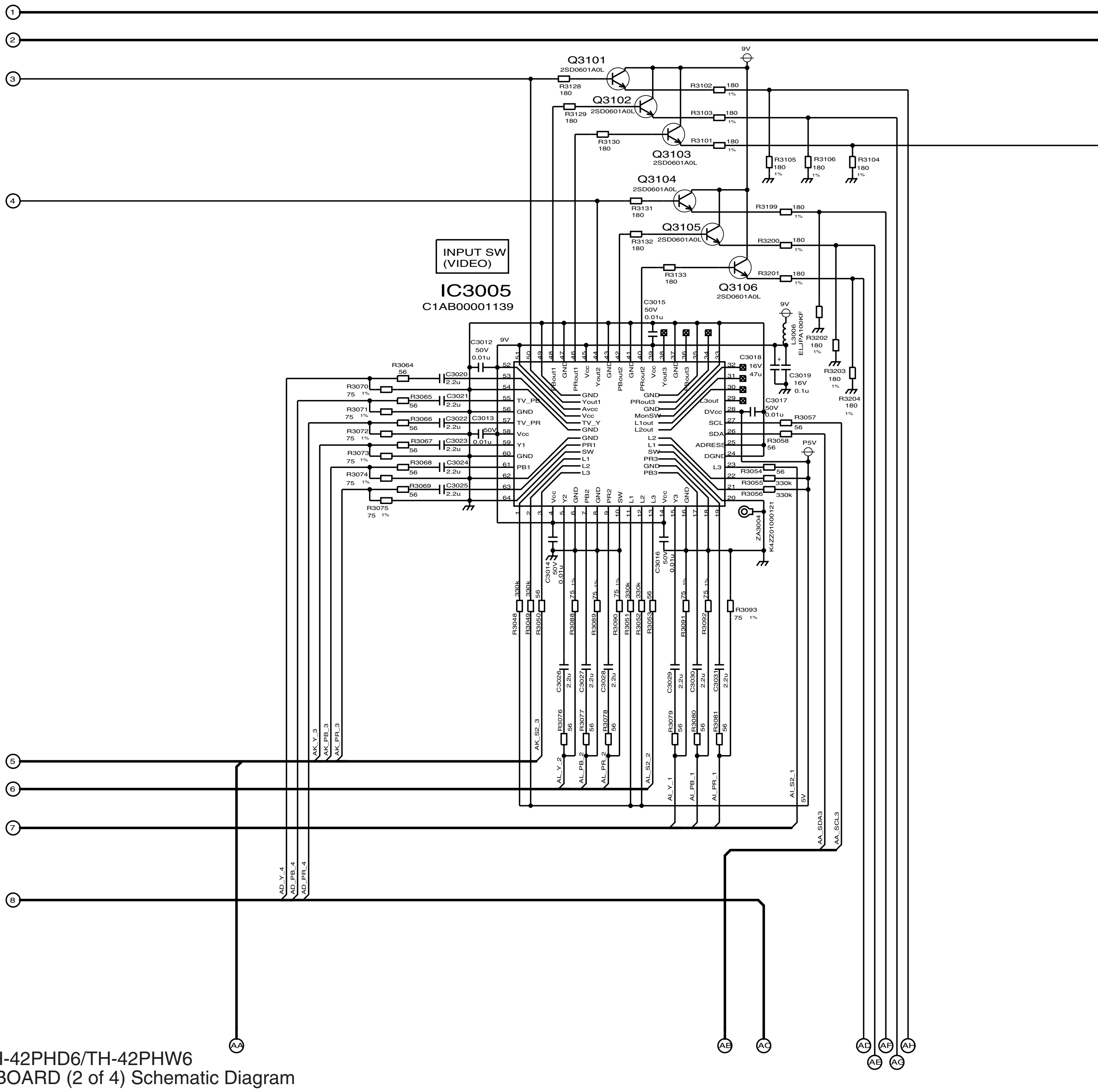

SYNC SEPA
IC8003
C1AA00000395
H.State
V.State
Green Sep Filter
Green IN
GND
Comp/H IN
Comp/H Det
Vert IN
Vert Det
Vert S/S Adj
Clamp Timing
V.Pol.
H.Pol.
Clamp OUT
Vcc
HD-OUT
HD+OUT
VD+OUT
Digital GND
Vert S/S IN
L8003
ELJPA100KF
12V
C8036
50V
100p
R8041
18k
C8029
50V 0.01u
C8030
16V 47u
R8043
R8045
R8048
R8050
1k
2.2k
R8054
100
R8055
100
R8056
100
R8037
4.7k
R8039
4.7k
1%
C8033
50V
1000p
C8038
50V
1000p
C8023
50V
0.01u
B SYNC
PROCESS
C0JBAB000417
IC8005
I1
O1
I2
O2
I3
O3
GND
VCC
I6
O6
I5
O5
I4
O4
5V
L8005
ELJPA100KF
C8045
16V
1u
12V
P5V
TPJH1
R8065
100
R8083
1k
AG_HD_M
R8066
100
AG_NCLP_M
TPJV1
R8084
1k
AG_VD_M
R8067
100
R8077
1.5k
R8079
1.5k
R8081
1.5k
L8007
ELJPA100KF
SYNC SEPA
IC8004
C1AA00000395
L8004
ELJPA100KF
C8037
50V
100p
R8042
18k
C8031
50V 0.01u
C8032
16V 47u
R8044
R8046
R8049
R8051
R8057
100
R8058
100
R8059
100
R8038
4.7k
R8040
4.7k
C8034
1000p
C8039
1000p
C SYNC
PROCESS
C0JBAB000417
IC8006
L8006
ELJPA100KF
C8046
16V
1u
TPJH2
R8068
100
R8085
1k
AF_HD_S
R8069
100
AF_NCLP_S
TPJV2
R8070
100
R8087
1k
AF_VD_S
R8078
1.5k
R8080
1.5k
R8082
1.5k
9V
C8043
0.1u
16V
Q8001
2SD0601A0L
C8041
16V
2.2u
R8060
330
R8061
150
R8062
270
R8071
0
C8035
16V
0.1u
Q8002
2SD0601A0L
C8027
16V
2.2u
R8036
150
R8035
330
R8047
270
R8072
0
R3162
1k
R3163
1k
R8089
1k
R8091
1k
C8049
50V
0.01u
VCC
I0
I1
SEL
MAIN
COM
INH
VEE
GND
R8093
100
IC8007
C0JBAR000111
C8050
50V
0.01u
SUB
IC8008
C0JBAR000111
R8094
100
AC_CS(M)
AC_CS(S)
①
②
③
④
⑤
⑥
⑦
⑧
Ⓐ
Ⓑ
Ⓒ
Ⓓ
Ⓔ
Ⓕ
Ⓖ
Ⓗ

TH-42PHD6/TH-42PHW6
J-BOARD (1 of 4) Schematic Diagram

5 6 7 8

14.19. J-Board (2 of 4) Schematic Diagram

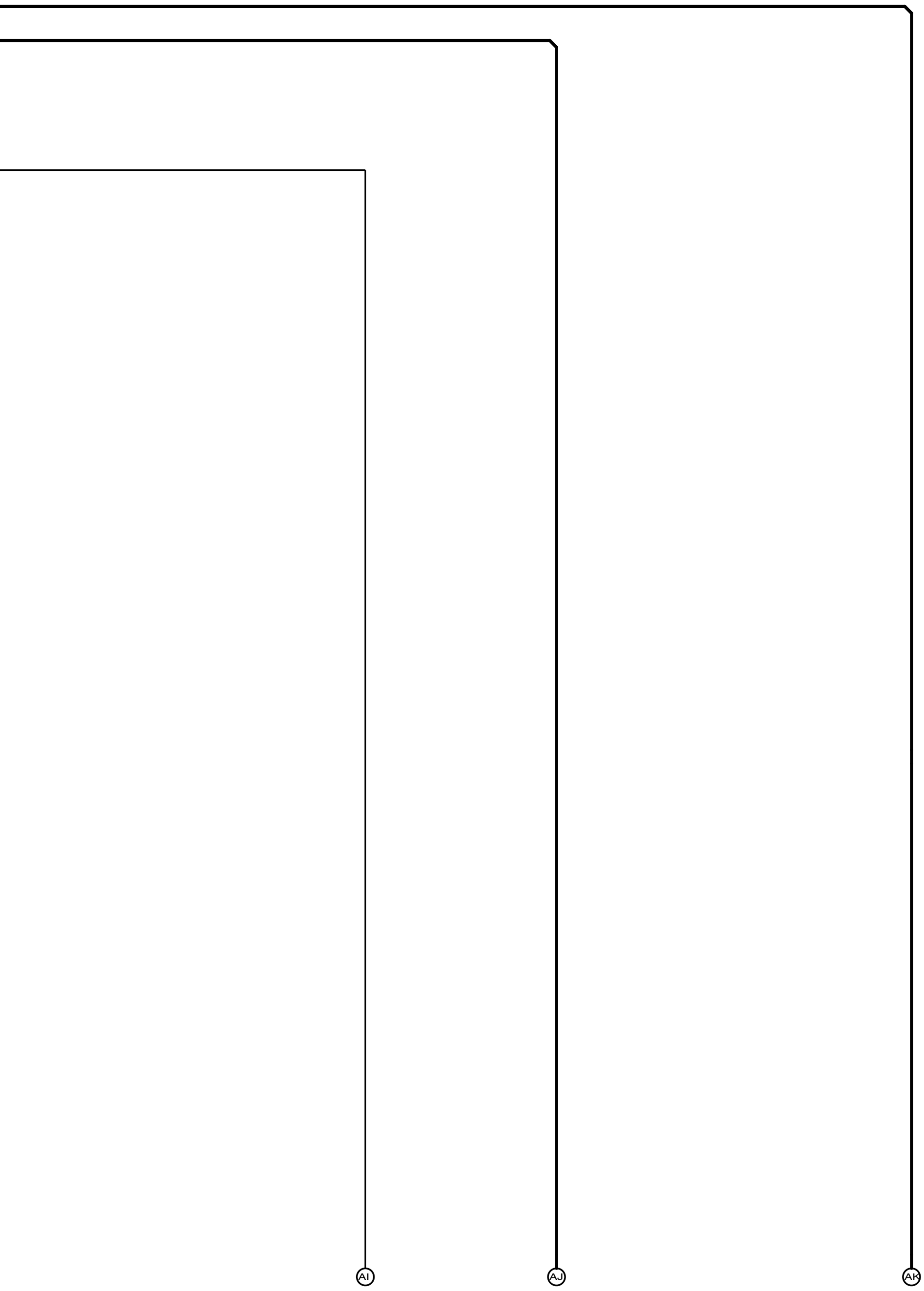
⚠ J-BOARD TNPA2826 (2/4)



1
2
3
4
5
6
7
8
9V
Q3101
2SD0601A0L
R3128
180
Q3102
2SD0601A0L
R3129
180
R3130
180
Q3103
2SD0601A0L
Q3104
2SD0601A0L
R3131
180
Q3105
2SD0601A0L
R3132
180
R3133
180
Q3106
2SD0601A0L
R3102 180 1%
R3103 180 1%
R3101 180 1%
R3105 180 1%
R3106 180 1%
R3104 180 1%
R3199 180 1%
R3200 180 1%
R3201 180 1%
R3202 180 1%
R3203 180 1%
R3204 180 1%
INPUT SW
(VIDEO)
IC3005
C1AB00001139
C3015
50V
0.01u
C3012
50V
0.01u
9V
L3006
ELJPA100KF
C3018
16V
47u
C3019
16V
0.1u
C3017
50V
0.01u
R3057
56
R3058
56
P5V
R3054 56
R3055 330k
R3056 330k
ZA3004
K4ZZ01000121
R3064
56
C3020
2.2u
R3070
75 1%
R3065
56
C3021
2.2u
R3071
75 1%
R3066
56
C3022
2.2u
C3013
50V
0.01u
R3072
75 1%
R3067
56
C3023
2.2u
R3073
75 1%
R3068
56
C3024
2.2u
R3074
75 1%
R3069
56
C3025
2.2u
R3075
75 1%
TV_PB
GND
TV_PR
Vcc
Y1
GND
PB1
GND
Yout1
Avcc
Vcc
TV_Y
GND
PR1
SW
L1
L2
L3
GND
PRout3
GND
MonSW
L1out
L2out
L2
L1
SW
PR3
GND
PB3
L3out
DVcc
SCL
SDA
ADRESS
DGND
L3
PRout1
GND
PRout1
Vcc
Yout2
GND
PBout2
GND
PRout2
Vcc
Yout3
GND
PBout3
Vcc
Y2
GND
PB2
GND
PR2
SW
L1
L2
L3
Vcc
Y3
GND
C3014
50V
0.01u
C3016
50V
0.01u
R3048 330k
R3049 330k
R3050 56
R3088 75 1%
R3089 75 1%
R3090 75 1%
R3051 330k
R3052 330k
R3053 56
R3091 75 1%
R3092 75 1%
R3093 75 1%
C3026 2.2u
C3027 2.2u
C3028 2.2u
C3029 2.2u
C3030 2.2u
C3031 2.2u
R3076 56
R3077 56
R3078 56
R3079 56
R3080 56
R3081 56
AK_Y_3
AK_PB_3
AK_PR_3
AK_S2_3
AL_Y_2
AL_PB_2
AL_PR_2
AL_S2_2
AI_Y_1
AI_PB_1
AI_PR_1
AI_S2_1
5V
AA_SDA3
AA_SCL3
AD_Y_4
AD_PB_4
AD_PR_4
AA
AB
AC
AD
AE
AF
AG
AH

TH-42PHD6/TH-42PHW6
J-BOARD (2 of 4) Schematic Diagram

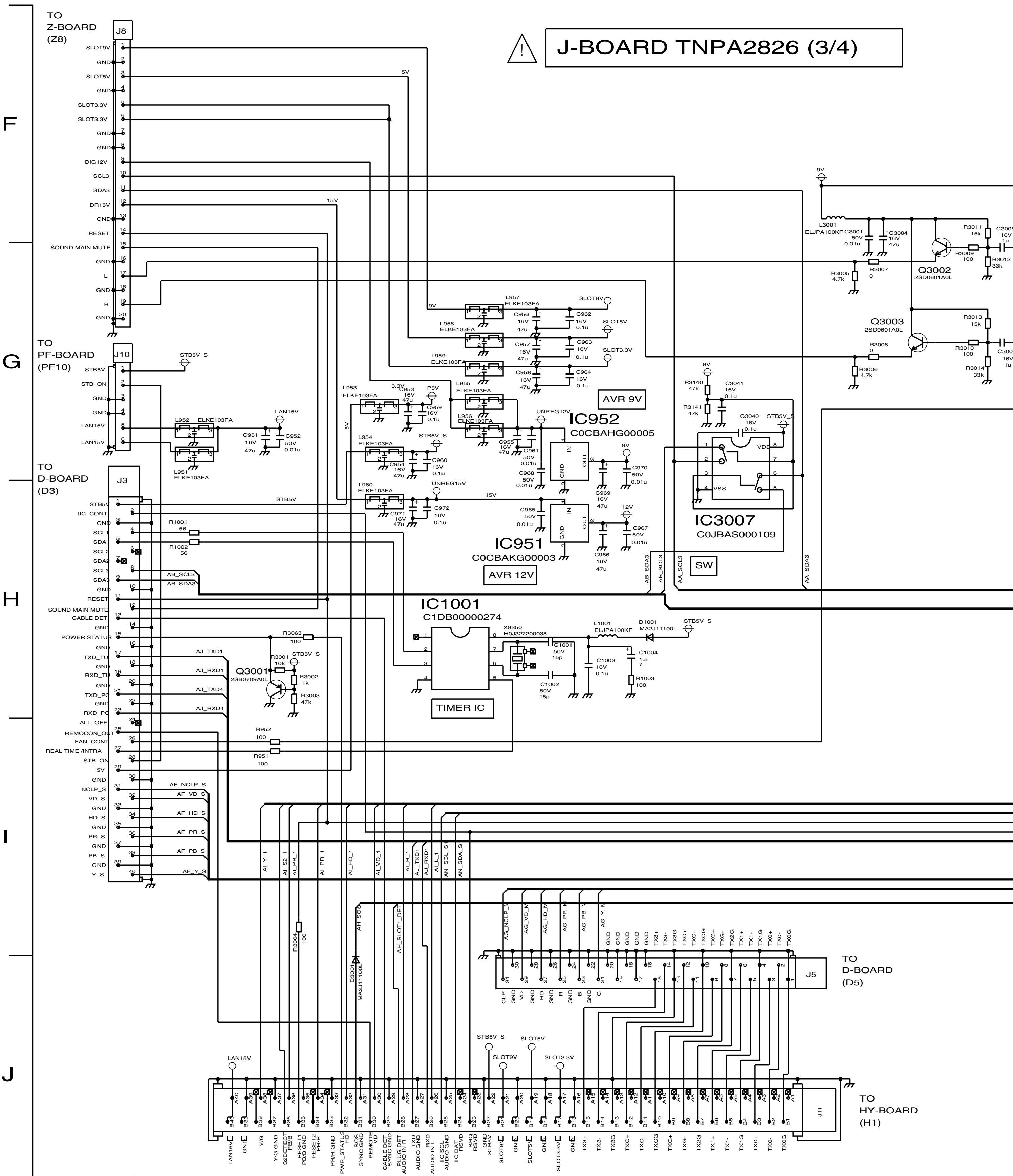
8 9 10 11 12



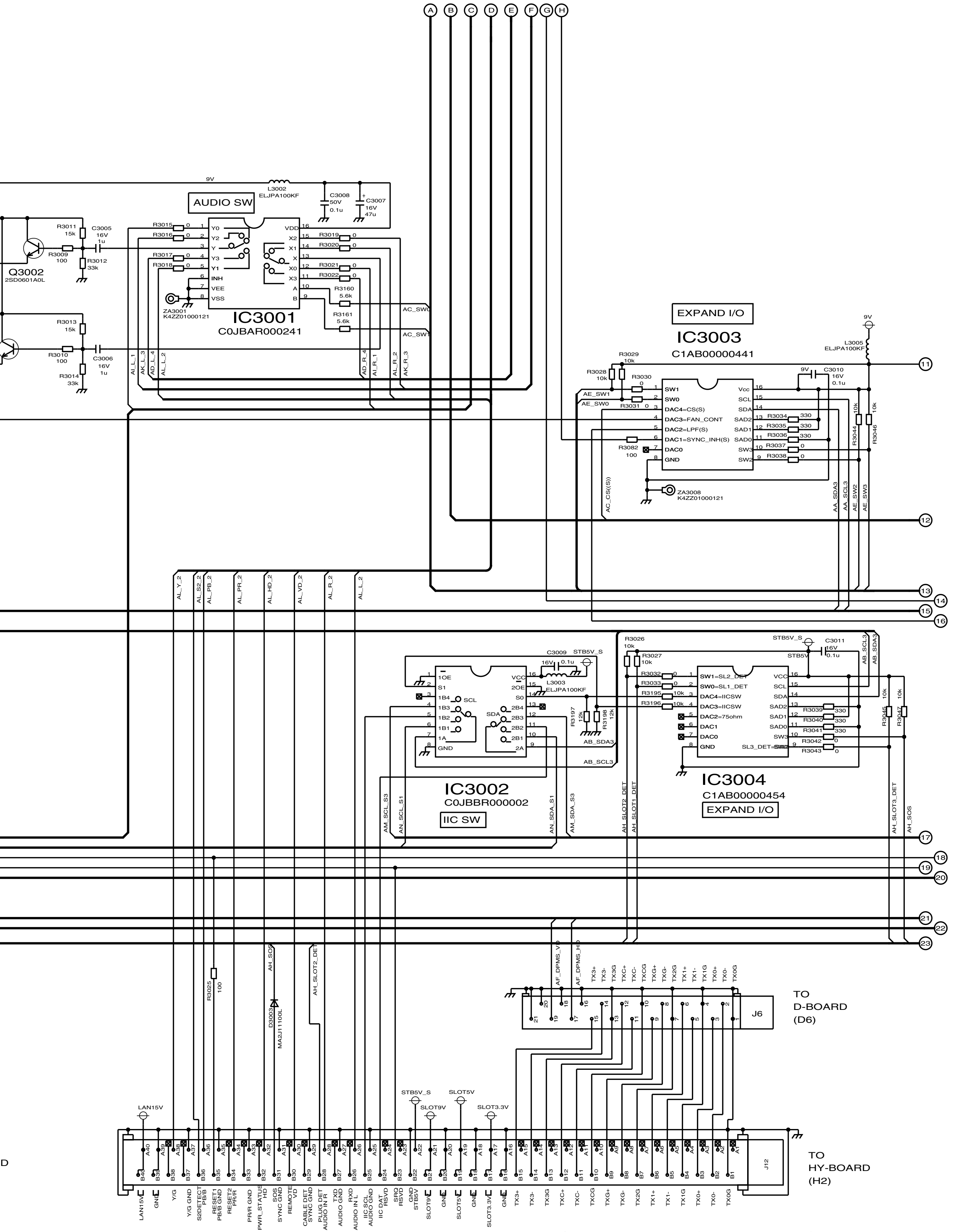
TH-42PHD6/TH-42PHW6
J-BOARD (2 of 4) Schematic Diagram

12 13 14 15

14.20. J-Board (3 of 4) Schematic Diagram


J-BOARD TNPA2826 (3/4)
F
G
H
I
J
TO
Z-BOARD
(Z8)
J8
SLOT9V
GND
SLOT5V
SLOT3.3V
DIG12V
SCL3
SDA3
DR15V
RESET
SOUND MAIN MUTE
L
R
5V
15V
9V
TO
PF-BOARD
(PF10)
J10
STB5V
STB_ON
LAN15V
STB5V_S
L952 ELKE103FA
L951 ELKE103FA
C951 16V 47u
C952 50V 0.01u
TO
D-BOARD
(D3)
J3
IIC_CONT
SCL1
SDA1
SCL2
SDA2
CABLE DET
POWER STATUS
TXD_TU
RXD_TU
TXD_PC
RXD_PC
ALL_OFF
REMOCON_OUT
FAN_CONT
REAL TIME /INTRA
STB_ON
NCLP_S
VD_S
HD_S
PR_S
PB_S
Y_S
R1001 56
R1002 56
AB_SCL3
AB_SDA3
AJ_TXD1
AJ_RXD1
AJ_TXD4
AJ_RXD4
AF_NCLP_S
AF_VD_S
AF_HD_S
AF_PR_S
AF_PB_S
AF_Y_S
R3063 100
R3001 10k
Q3001 2SB0709A0L
R3002 1k
R3003 47k
R952 100
R951 100
L957 ELKE103FA
L958 ELKE103FA
L959 ELKE103FA
L955 ELKE103FA
L956 ELKE103FA
L953 ELKE103FA
L954 ELKE103FA
L960 ELKE103FA
C956 16V 47u
C962 16V 0.1u
C957 16V 47u
C963 16V 0.1u
C958 16V 47u
C964 16V 0.1u
C953 16V 47u
C959 16V 0.1u
C954 16V 47u
C960 16V 0.1u
C971 16V 47u
C972 16V 0.1u
C955 16V 47u
C961 50V 0.01u
C968 50V 0.01u
C965 50V 0.01u
C969 16V 47u
C970 50V 0.01u
C966 16V 47u
C967 50V 0.01u
3.3V
P5V
UNREG12V
UNREG15V
12V
AVR 9V
IC952
C0CBAHG00005
IC951
C0CBAKG00003
AVR 12V
IN
OUT
GND
IC1001
C1DB00000274
TIMER IC
X9350 H0J327200038
C1001 50V 15p
C1002 50V 15p
L1001 ELJPA100KF
D1001 MA2J11100L
C1003 16V 0.1u
C1004 1.5 v
R1003 100
STB5V_S
L3001 ELJPA100KF
C3001 50V 0.01u
C3004 16V 47u
R3005 4.7k
R3007 0
R3011 15k
R3009 100
R3012 33k
C3005 16V 1u
Q3002 2SD0601A0L
Q3003 2SD0601A0L
R3013 15k
R3008 0
R3006 4.7k
R3010 100
R3014 33k
C3006 16V 1u
R3140 47k
R3141 47k
C3041 16V 0.1u
C3040 16V 0.1u
VDD
VSS
IC3007
C0JBAS000109
SW
AB_SDA3
AB_SCL3
AA_SCL3
AA_SDA3
AI_Y_1
AI_S2_1
AI_PB_1
AI_PR_1
AI_HD_1
AI_VD_1
AI_R_1
AJ_TXD1
AJ_RXD1
AI_L_1
AN_SCL_S
AN_SDA_S
R3004 100
AH_SOS
D3001 MA2J11100L
AH_SLOT1_DET
AG_NCLP_N
AG_VD_N
AG_HD_N
AG_PR_N
AG_PB_N
AG_Y_N
TX3+
TX3-
TX3G
TXC+
TXC-
TXCG
TXG+
TXG-
TX2G
TX1+
TX1-
TX1G
TX0+
TX0-
TX0G
CLP
VD
HD
B
G
J5
TO
D-BOARD
(D5)
LAN15V
STB5V_S
SLOT5V
SLOT9V
SLOT3.3V
Y/G
Y/G GND
S2DETECT
PB/B
RESET1
PB/B GND
RESET2
PR/R
PR/R GND
PWR_STATUS
HD
SOS
SYNC GND
REMOTE
VD
CABLE DET
SYNC GND
PLUG DET
AUDIO IN R
TXD
AUDIO GND
RXD
AUDIO IN L
IIC SCL
AUDIO GND
IIC DAT
RSVD
SRQ
RSVD
GND
STB5V
J11
TO
HY-BOARD
(H1)
1
2
3
4

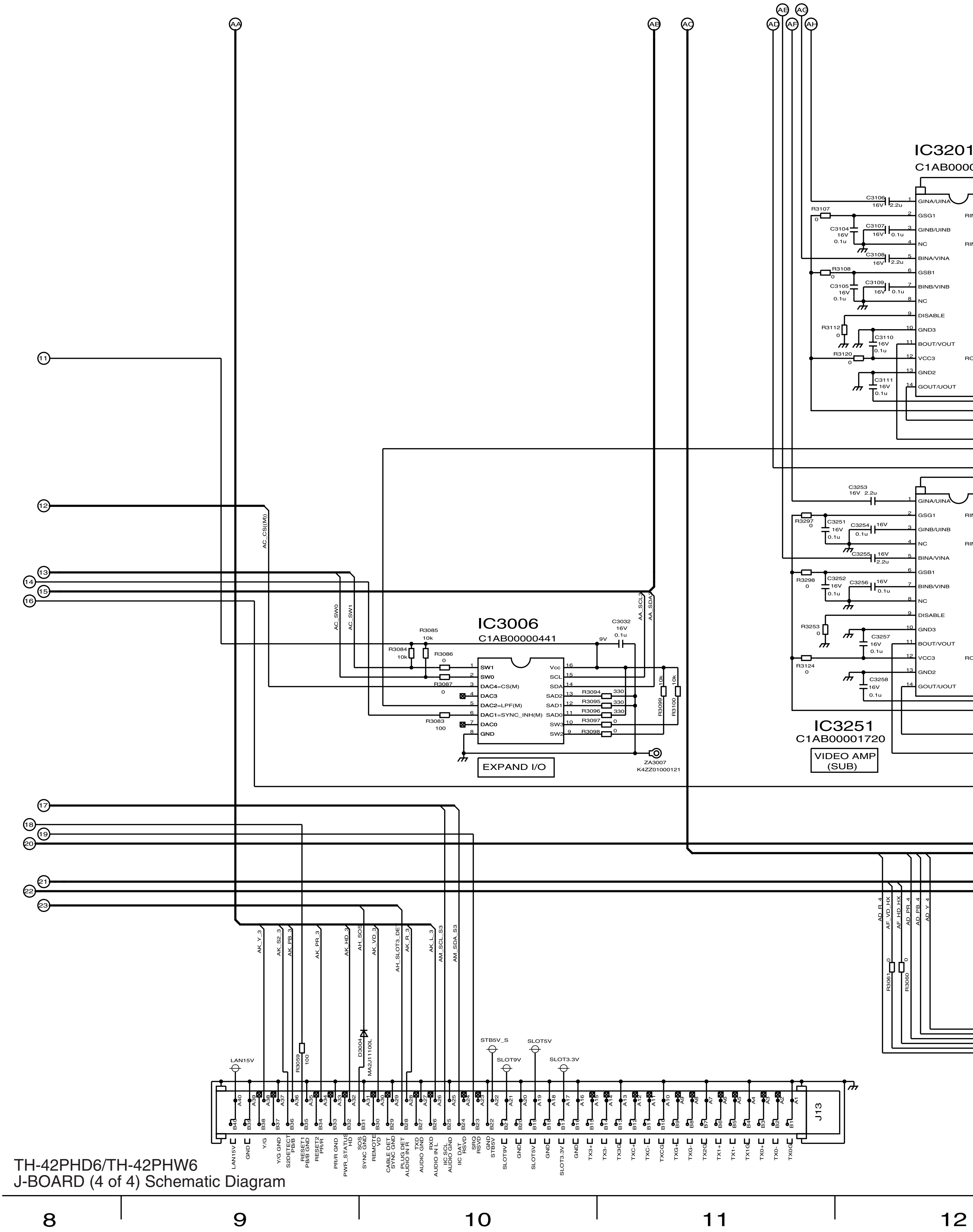
TH-42PHD6/TH-42PHW6 J-BOARD (3 of 4) Schematic Diagram


AUDIO SW
IC3001
C0JBAR000241
L3002
ELJPA100KF
C3008
50V
0.1u
C3007
16V
47u
9V
Q3002
2SD0601A0L
ZA3001
K4ZZ01000121
R3160
5.6k
R3161
5.6k
AC_SW0
AC_SW1
EXPAND I/O
IC3003
C1AB00000441
L3005
ELJPA100KF
C3010
16V
0.1u
SW1
SW0
DAC4=CS(S)
DAC3=FAN_CONT
DAC2=LPF(S)
DAC1=SYNC_INH(S)
DAC0
GND
Vcc
SCL
SDA
SAD2
SAD1
SAD0
SW3
SW2
ZA3008
K4ZZ01000121
AE_SW1
AE_SW0
AA_SDA3
AA_SCL3
AE_SW2
AE_SW3
AC_CS(S)
AL_Y_2
AL_S2_2
AL_PB_2
AL_PR_2
AL_HD_2
AL_VD_2
AL_R_2
AL_L_2
IC3002
C0JBBR000002
IIC SW
C3009
STB5V_S
L3003
ELJPA100KF
AB_SDA3
AB_SCL3
AM_SCL_S3
AN_SCL_S1
AN_SDA_S1
AM_SDA_S3
AH_SLOT2_DET
AH_SLOT1_DET
IC3004
C1AB00000454
EXPAND I/O
SW1=SL2_DET
SW0=SL1_DET
DAC4=IICSW
DAC3=IICSW
DAC2=75ohm
DAC1
DAC0
GND
SL3_DET=SW2
C3011
16V
0.1u
AH_SLOT3_DET
AH_SOS
AH_SOS
AH_SLOT2_DET
R3025
100
D3003
MA2J1100L
AF_DPMS_VD
AF_DPMS_HD
J6
TO
D-BOARD
(D6)
LAN15V
STB5V_S
SLOT9V
SLOT5V
SLOT3.3V
J12
TO
HY-BOARD
(H2)
LAN15V
GND
Y/G
Y/G GND
S2DETECT PB/B
RESET1 PB/B GND
RESET2 PR/R
PR/R GND
PWR_STATUS
SOS HD
SYNC GND
REMOTE VD
CABLE DET SYNC GND
PLUG DET AUDIO IN R
TXD AUDIO GND
RXD AUDIO IN L
IIC SCL AUDIO GND
IIC DAT RSVD
SRQ RSVD
GND STB5V
SLOT9V
GND
SLOT5V
GND
SLOT3.3V
GND
TX3+
TX3-
TX3G
TXC+
TXC-
TXCG
TXG+
TXG-
TX2G
TX1+
TX1-
TX1G
TX0+
TX0-
TX0G
11
12
13
14
15
16
17
18
19
20
21
22
23
A
B
C
D
E
F
G
H

TH-42PHD6/TH-42PHW6 J-BOARD (3 of 4) Schematic Diagram

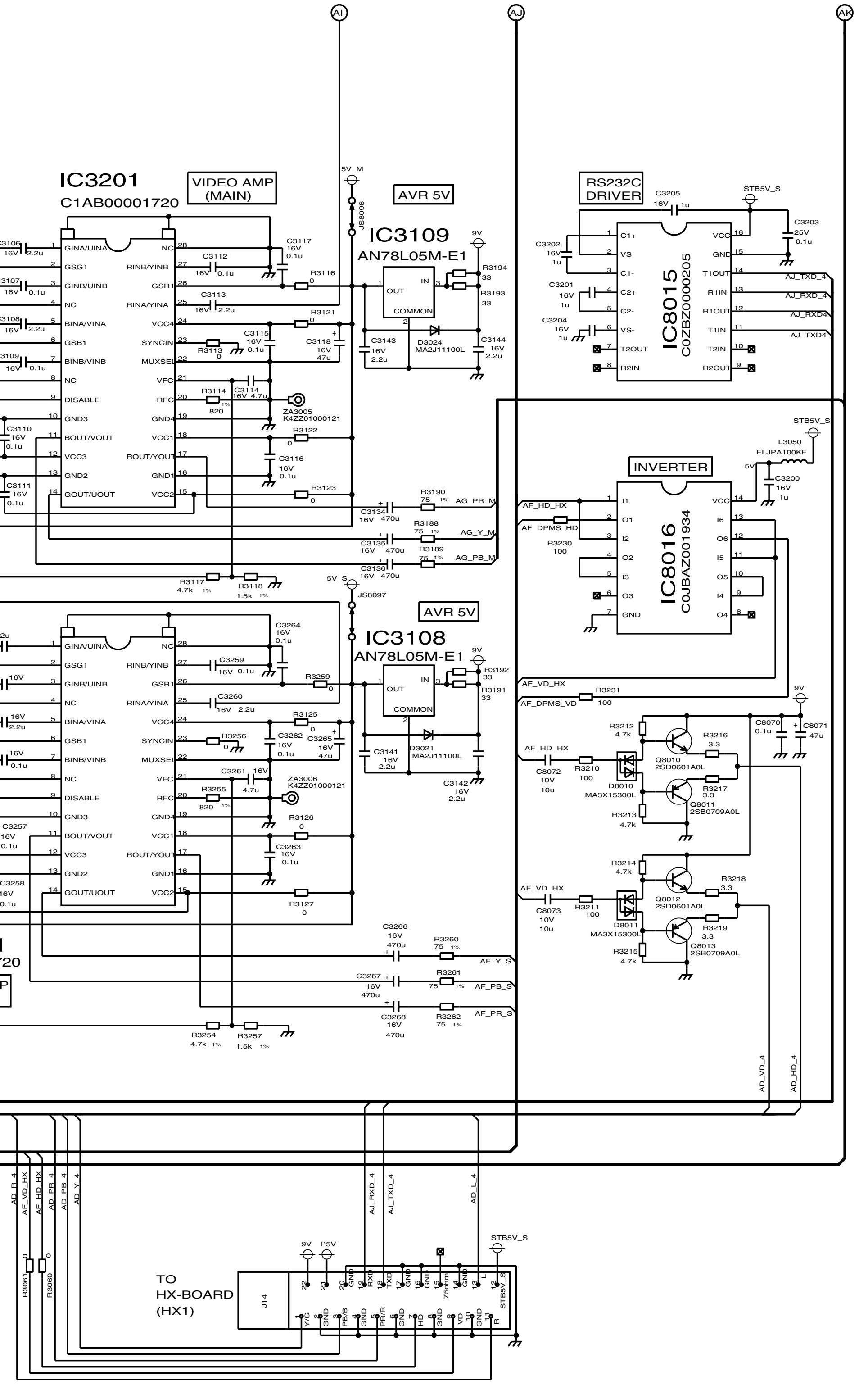
5	6	7	8

14.21. J-Board (4 of 4) Schematic Diagram



AA
AB
AC
AD
AE
AF
AG
AH
IC3201
C1AB0000
IC3006
C1AB00000441
EXPAND I/O
SW1
SW0
DAC4=CS(M)
DAC3
DAC2=LPF(M)
DAC1=SYNC_INH(M)
DAC0
GND
Vcc
SCL
SDA
SAD2
SAD1
SAD0
SW3
SW2
ZA3007
K4ZZ01000121
IC3251
C1AB00001720
VIDEO AMP
(SUB)
GINA/UINA
GSG1
GINB/UINB
NC
BINA/VINA
GSB1
BINB/VINB
DISABLE
GND3
BOUT/VOUT
VCC3
GND2
GOUT/UOUT
AC_CS(M)
AC_SW0
AC_SW1
AA_SCL
AA_SDA
R3085
10k
R3084
10k
R3086
0
R3087
0
R3083
100
C3032
16V
0.1u
9V
R3094
R3095
R3096
R3097
R3098
330
R3099
R3100
10k
C3106
C3107
C3108
C3109
C3104
C3105
C3110
C3111
R3107
R3108
R3112
R3120
C3253
C3251
C3254
C3255
C3252
C3256
C3257
C3258
R3297
R3298
R3253
R3124
16V
2.2u
0.1u
AK_Y_3
AK_S2_3
AK_PB_3
AK_PR_3
AK_HD_3
AH_SOS
AK_VD_3
AH_SLOT3_DET
AK_R_3
AK_L_3
AM_SCL_S3
AM_SDA_S3
AD_R_4
AF_VD_HX
AF_HD_HX
AD_PR_4
AD_PB_4
AD_Y_4
R3061
R3060
R3059
100
D3004
MA2J11100L
LAN15V
STB5V_S
SLOT9V
SLOT5V
SLOT3.3V
J13
LAN15V
GND
Y/G
Y/G GND
S2DETECT
PB/B
RESET1
PB/B GND
RESET2
PR/R
PR/R GND
PWR_STATUS
HD
SOS
SYNC GND
REMOTE
VD
CABLE DET
SYNC GND
PLUG DET
AUDIO IN R
TXD
AUDIO GND
RXD
AUDIO IN L
IIC SCL
AUDIO GND
IIC DAT
RSVD
SRQ
RSVD
GND
STB5V
SLOT9V
GND
SLOT5V
GND
SLOT3.3V
GND
TX3+
TX3-
TX3G
TXC+
TXC-
TXCG
TXG+
TXG-
TX2G
TX1+
TX1-
TX1G
TX0+
TX0-
TX0G
11
12
13
14
15
16
17
18
19
20
21
22
23
8
9
10
11
12

TH-42PHD6/TH-42PHW6
J-BOARD (4 of 4) Schematic Diagram

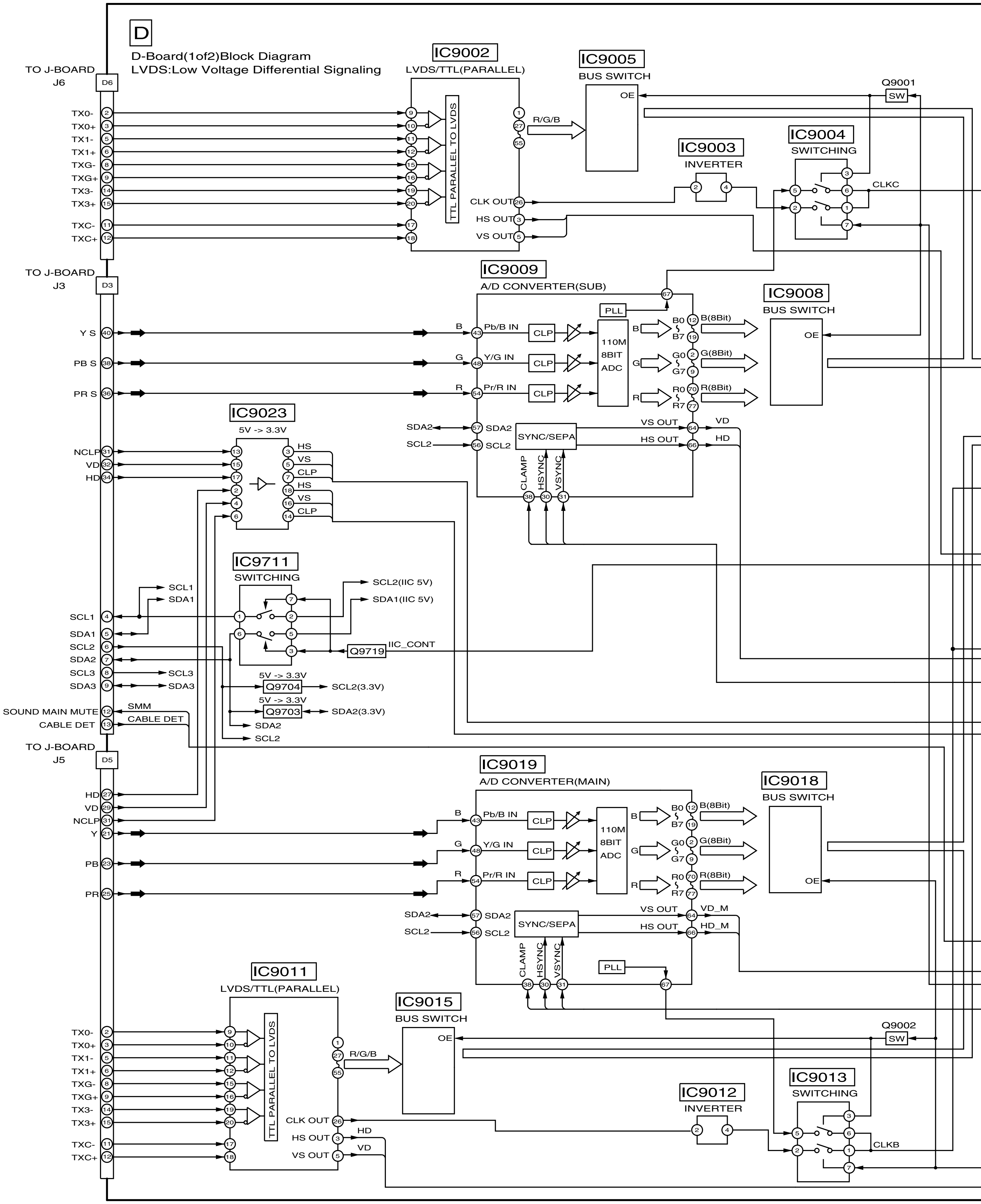

IC3201
C1AB00001720
VIDEO AMP (MAIN)
AVR 5V
IC3109
AN78L05M-E1
RS232C DRIVER
IC8015
C0ZBZ0000205
INVERTER
IC8016
C0JBAZ001934
AVR 5V
IC3108
AN78L05M-E1
5V_M
9V
STB5V_S
5V_S
JS8096
JS8097
ZA3005
K4ZZ01000121
ZA3006
K4ZZ01000121
D3024
MA2J11100L
D3021
MA2J11100L
L3050
ELJPA100KF
Q8010
2SD0601A0L
Q8011
2SB0709A0L
Q8012
2SD0601A0L
Q8013
2SB0709A0L
D8010
MA3X15300L
D8011
MA3X15300L
AG_PR_M
AG_Y_M
AG_PB_M
AF_Y_S
AF_PB_S
AF_PR_S
AF_HD_HX
AF_DPMS_HD
AF_VD_HX
AF_DPMS_VD
AJ_TXD_4
AJ_RXD_4
AJ_RXD4
AJ_TXD4
AD_VD_4
AD_HD_4
AD_L_4
AD_R_4
AF_VD_HX
AF_HD_HX
AD_PR_4
AD_PB_4
AD_Y_4
R3061
R3060
TO
HX-BOARD
(HX1)
J14
AI
AJ
AK

J-BOARD TNPA2826 (4/4)

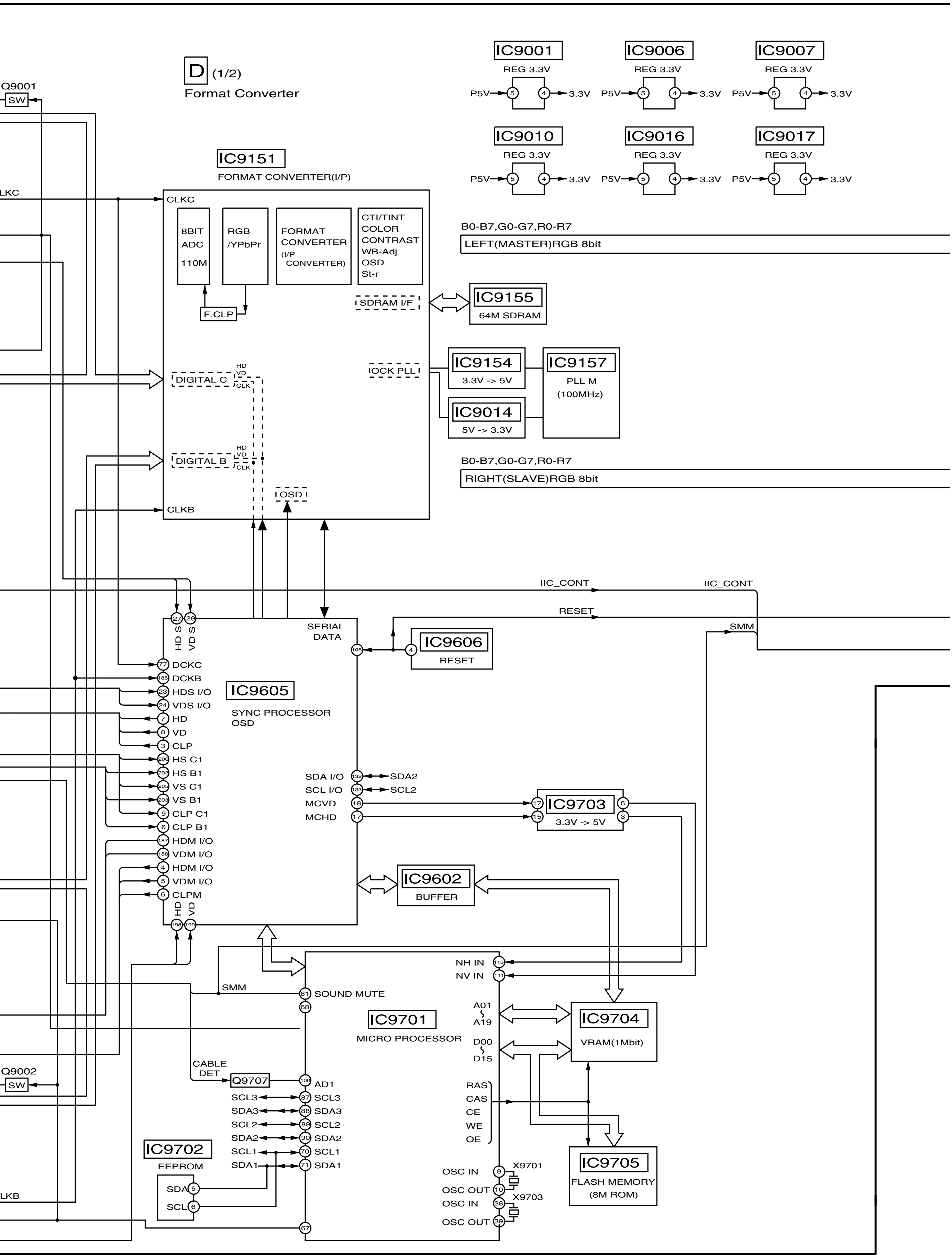
TH-42PHD6/TH-42PHW6
J-BOARD (4 of 4) Schematic Diagram

12	13	14	15

14.22. D-Board (1 of 2) Block Diagram

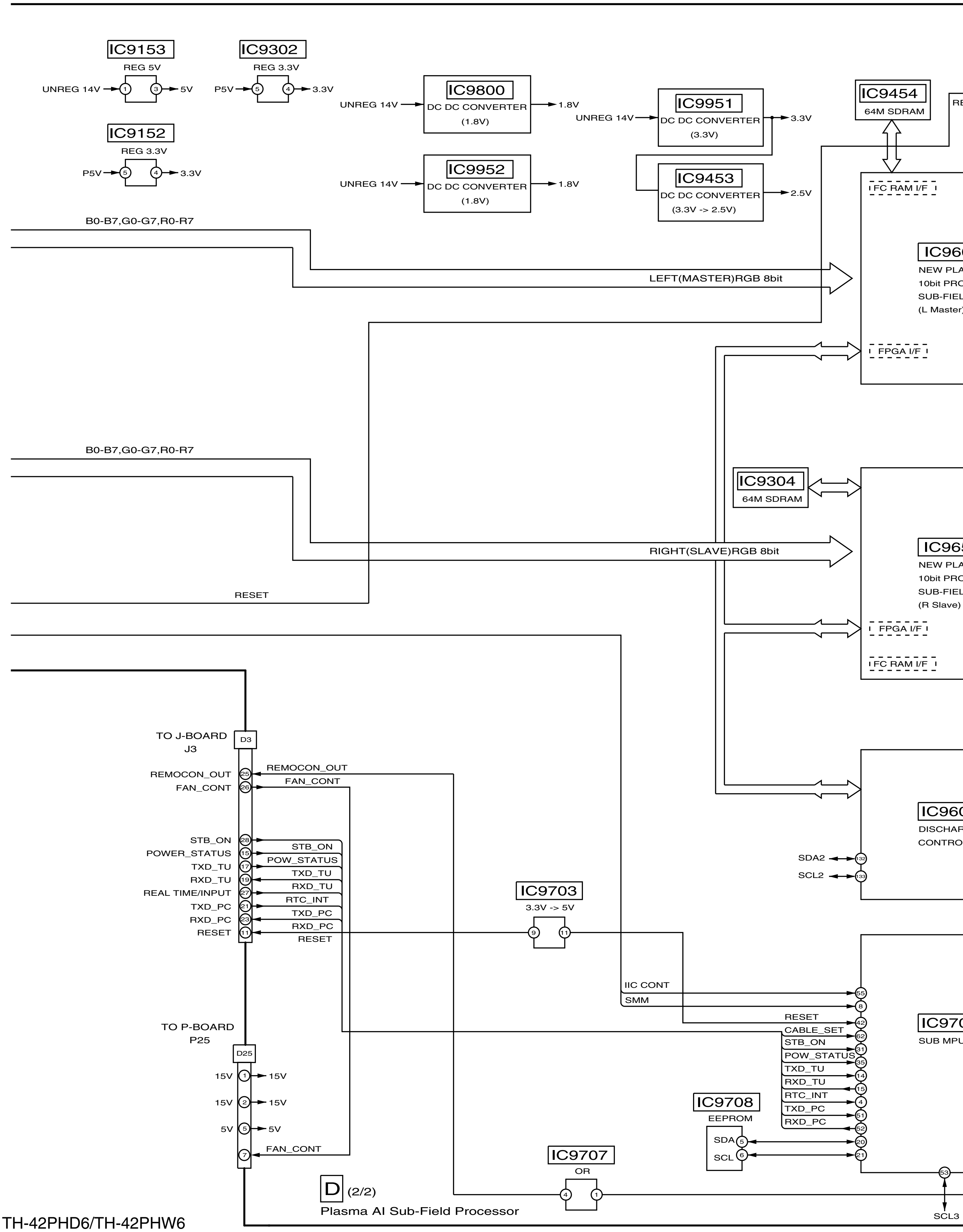

D
D-Board(1of2)Block Diagram
LVDS:Low Voltage Differential Signaling
TO J-BOARD J6
D6
TX0-
TX0+
TX1-
TX1+
TXG-
TXG+
TX3-
TX3+
TXC-
TXC+
IC9002
LVDS/TTL(PARALLEL)
TTL PARALLEL TO LVDS
R/G/B
CLK OUT
HS OUT
VS OUT
IC9005
BUS SWITCH
OE
Q9001
SW
IC9003
INVERTER
IC9004
SWITCHING
CLKC
TO J-BOARD J3
D3
Y S
PB S
PR S
IC9009
A/D CONVERTER(SUB)
PLL
Pb/B IN
Y/G IN
Pr/R IN
CLP
110M
8BIT
ADC
B0 B7 B(8Bit)
G0 G7 G(8Bit)
R0 R7 R(8Bit)
IC9008
BUS SWITCH
OE
SDA2
SCL2
SYNC/SEPA
VS OUT
HS OUT
VD
HD
CLAMP
HSYNC
VSYNC
IC9023
5V -> 3.3V
HS
VS
CLP
NCLP
VD
HD
IC9711
SWITCHING
SCL1
SDA1
SCL2(IIC 5V)
SDA1(IIC 5V)
Q9719
IIC_CONT
SCL1
SDA1
SCL2
SDA2
SCL3
SDA3
5V -> 3.3V
Q9704
SCL2(3.3V)
Q9703
SDA2(3.3V)
SOUND MAIN MUTE
CABLE DET
SMM
CABLE DET
SDA2
SCL2
TO J-BOARD J5
D5
HD
VD
NCLP
Y
PB
PR
IC9019
A/D CONVERTER(MAIN)
IC9018
BUS SWITCH
VD_M
HD_M
IC9011
LVDS/TTL(PARALLEL)
IC9015
BUS SWITCH
Q9002
IC9012
INVERTER
IC9013
SWITCHING
CLKB

TH-42PHD6/TH-42PHW6
D-BOARD (1 of 2) Block Diagram

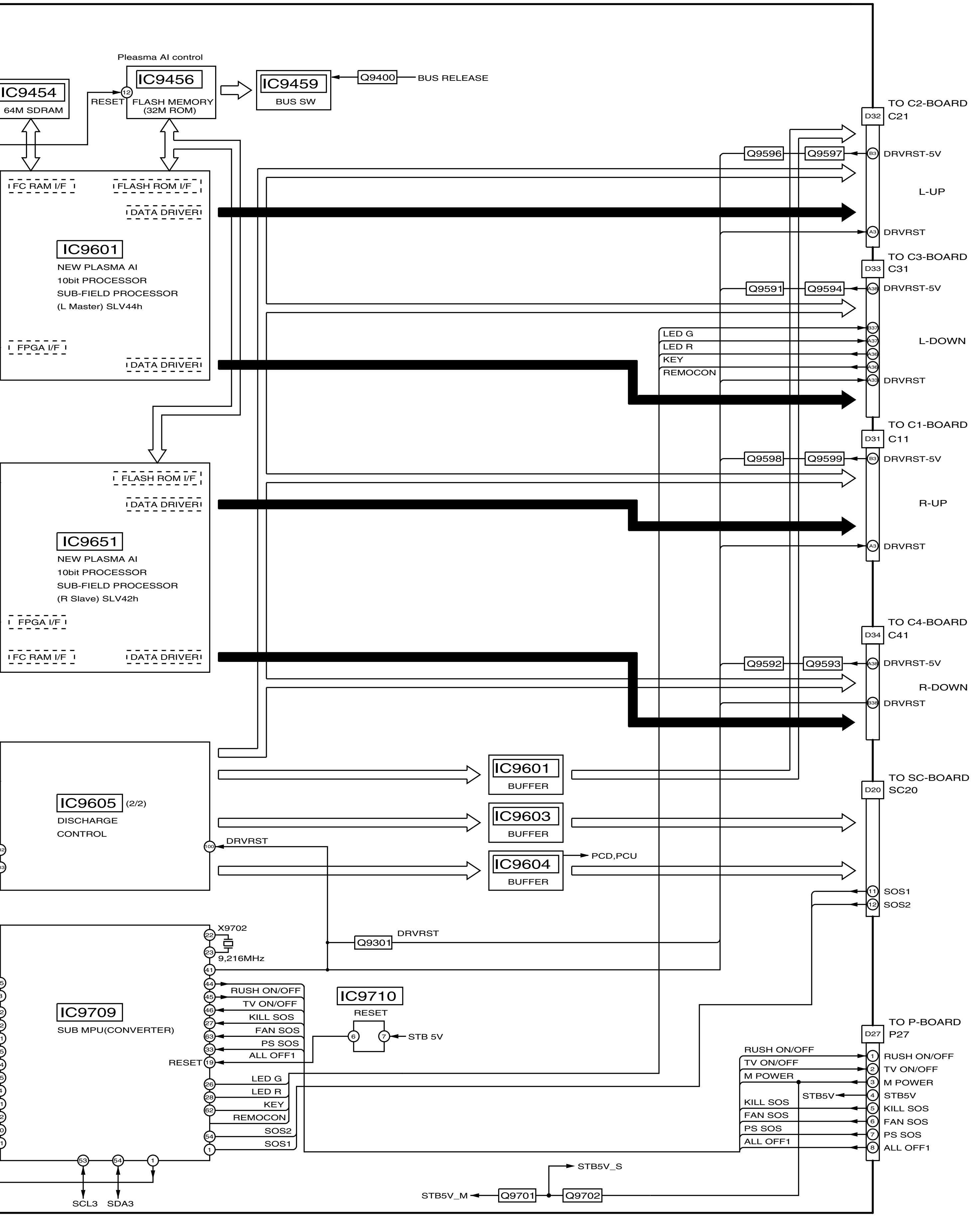

D (1/2)
Format Converter
Q9001
SW
LKC
IC9001
REG 3.3V
IC9006
REG 3.3V
IC9007
REG 3.3V
P5V
3.3V
IC9010
REG 3.3V
IC9016
REG 3.3V
IC9017
REG 3.3V
IC9151
FORMAT CONVERTER(I/P)
CLKC
8BIT
ADC
110M
RGB
/YPbPr
FORMAT
CONVERTER
(I/P
CONVERTER)
CTI/TINT
COLOR
CONTRAST
WB-Adj
OSD
St-r
F.CLP
SDRAM I/F
B0-B7,G0-G7,R0-R7
LEFT(MASTER)RGB 8bit
IC9155
64M SDRAM
LOCK PLL
IC9154
3.3V -> 5V
IC9157
PLL M
(100MHz)
IC9014
5V -> 3.3V
DIGITAL C
HD
VD
CLK
DIGITAL B
B0-B7,G0-G7,R0-R7
RIGHT(SLAVE)RGB 8bit
OSD
CLKB
IIC_CONT
IIC_CONT
RESET
SMM
HD S
VD S
SERIAL
DATA
IC9606
RESET
IC9605
SYNC PROCESSOR
OSD
DCKC
DCKB
HDS I/O
VDS I/O
HD
VD
CLP
HS C1
HS B1
VS C1
VS B1
CLP C1
CLP B1
HDM I/O
VDM I/O
HDM I/O
VDM I/O
CLPM
SDA I/O
SCL I/O
MCVD
MCHD
SDA2
SCL2
IC9703
3.3V -> 5V
IC9602
BUFFER
NH IN
NV IN
SMM
SOUND MUTE
IC9701
MICRO PROCESSOR
A01
A19
D00
D15
IC9704
VRAM(1Mbit)
Q9002
SW
CABLE
DET
Q9707
AD1
SCL3
SDA3
SCL2
SDA2
SCL1
SDA1
RAS
CAS
CE
WE
OE
IC9702
EEPROM
SDA
SCL
OSC IN
OSC OUT
OSC IN
OSC OUT
X9701
X9703
IC9705
FLASH MEMORY
(8M ROM)
LKB

TH-42PHD6/TH-42PHW6
D-BOARD (1 of 2) Block Diagram

14.23. D-Board (2 of 2) Block Diagram

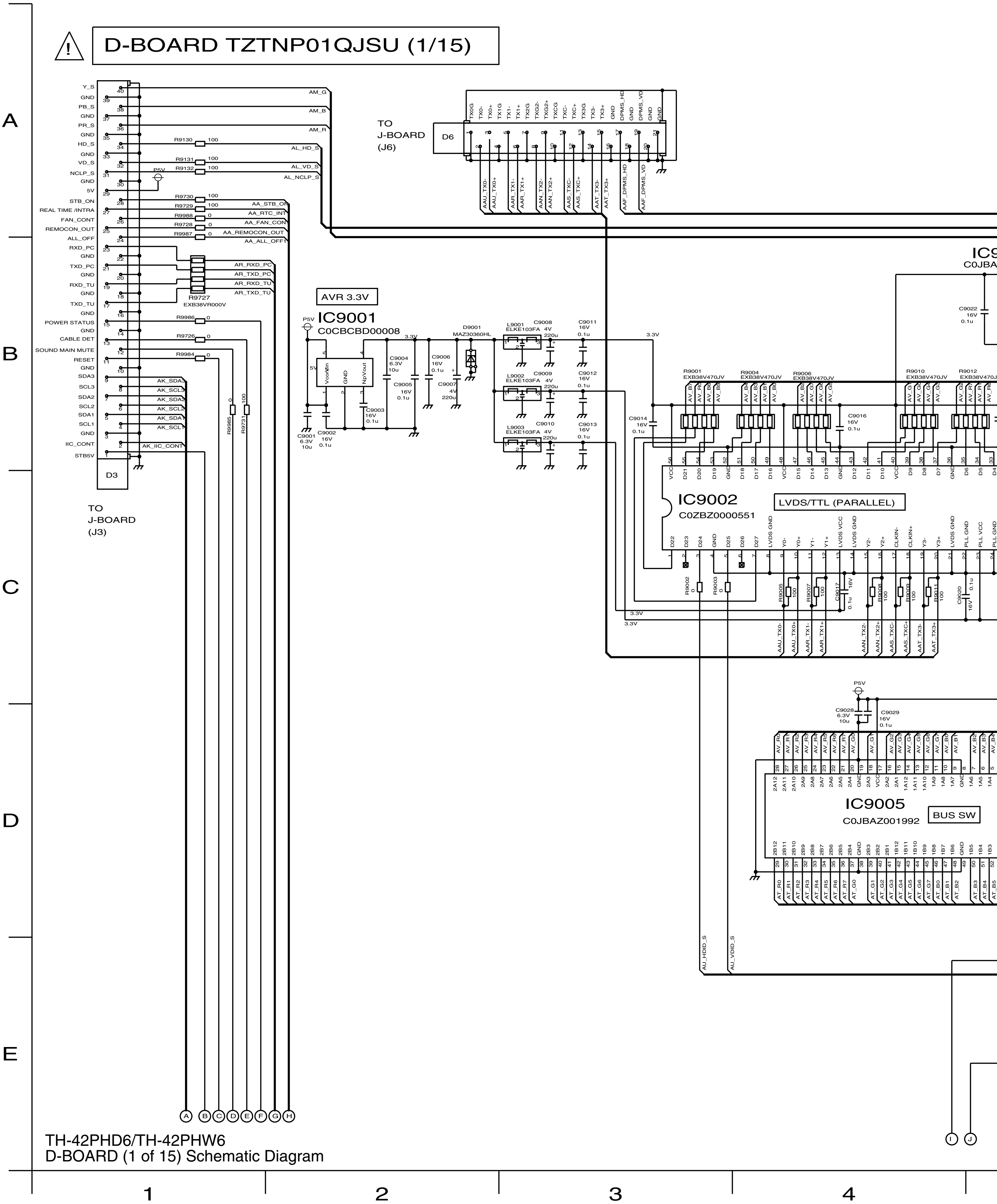

IC9153
REG 5V
UNREG 14V
1
3
5V
IC9302
REG 3.3V
P5V
5
4
3.3V
IC9152
REG 3.3V
P5V
5
4
3.3V
IC9800
DC DC CONVERTER
(1.8V)
UNREG 14V
1.8V
IC9952
DC DC CONVERTER
(1.8V)
UNREG 14V
1.8V
IC9951
DC DC CONVERTER
(3.3V)
UNREG 14V
3.3V
IC9453
DC DC CONVERTER
(3.3V -> 2.5V)
2.5V
IC9454
64M SDRAM
RE
FC RAM I/F
IC96
NEW PLA
10bit PRO
SUB-FIEL
(L Master)
FPGA I/F
B0-B7,G0-G7,R0-R7
LEFT(MASTER)RGB 8bit
B0-B7,G0-G7,R0-R7
IC9304
64M SDRAM
RIGHT(SLAVE)RGB 8bit
IC96
NEW PLA
10bit PRO
SUB-FIEL
(R Slave)
FPGA I/F
FC RAM I/F
RESET
IC960
DISCHAR
CONTRO
SDA2
132
SCL2
133
TO J-BOARD
J3
D3
REMOCON_OUT
25
FAN_CONT
26
STB_ON
28
POWER_STATUS
15
TXD_TU
17
RXD_TU
19
REAL TIME/INPUT
27
TXD_PC
21
RXD_PC
23
RESET
11
REMOCON_OUT
FAN_CONT
STB_ON
POW_STATUS
TXD_TU
RXD_TU
RTC_INT
TXD_PC
RXD_PC
RESET
IC9703
3.3V -> 5V
9
11
IIC CONT
SMM
55
8
RESET
42
CABLE_SET
62
STB_ON
31
POW_STATUS
35
TXD_TU
14
RXD_TU
15
RTC_INT
4
TXD_PC
51
RXD_PC
52
IC970
SUB MPU
IC9708
EEPROM
SDA
5
SCL
6
20
21
53
SCL3
TO P-BOARD
P25
D25
15V
1
15V
15V
2
15V
5V
5
5V
7
FAN_CONT
IC9707
OR
4
1
D
(2/2)
Plasma AI Sub-Field Processor

TH-42PHD6/TH-42PHW6
D-BOARD (2 of 2) Block Diagram

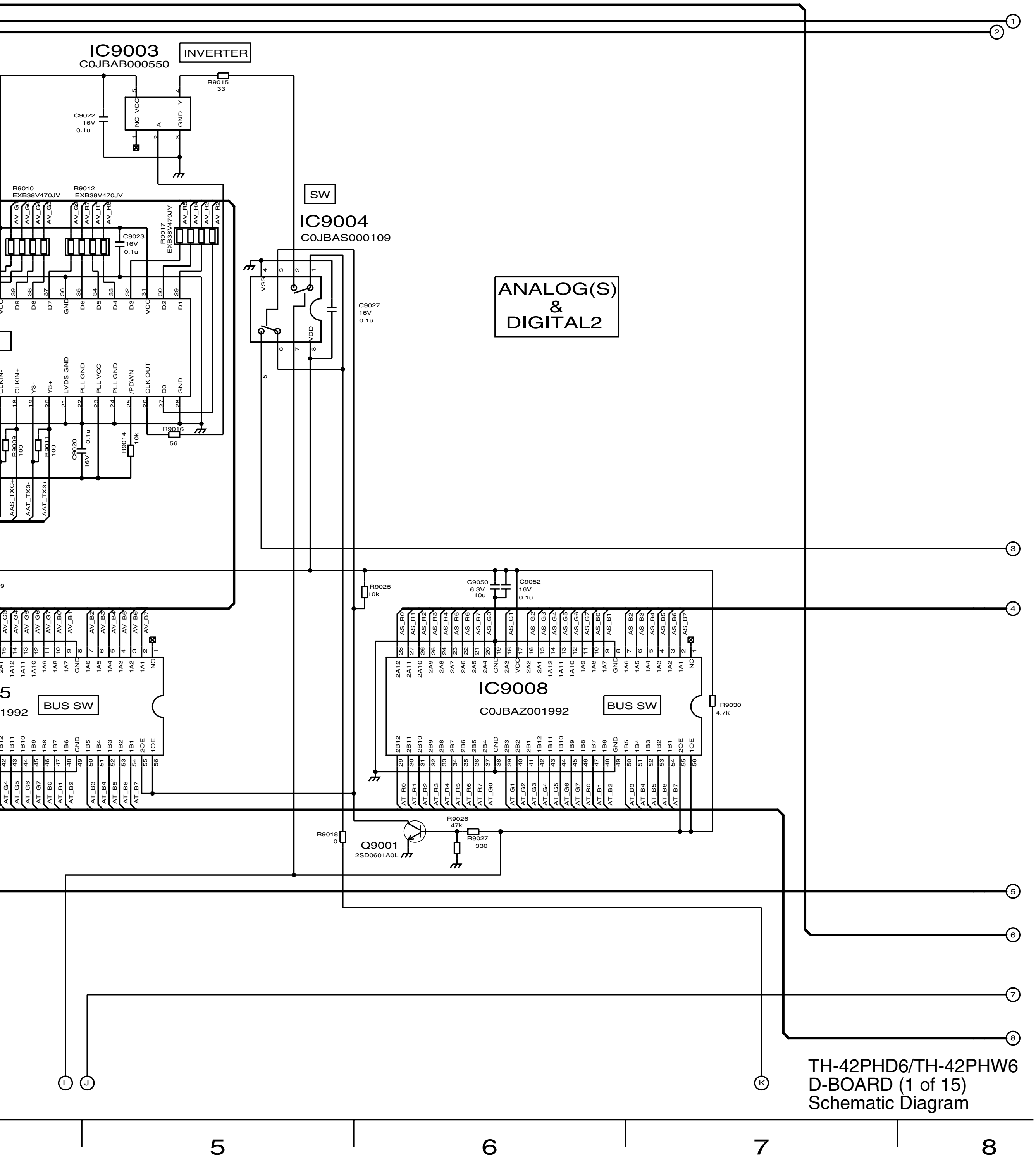

Pleasma AI control
IC9454
64M SDRAM
IC9456
12
RESET
FLASH MEMORY
(32M ROM)
IC9459
BUS SW
Q9400
BUS RELEASE
FC RAM I/F
FLASH ROM I/F
DATA DRIVER
IC9601
NEW PLASMA AI
10bit PROCESSOR
SUB-FIELD PROCESSOR
(L Master) SLV44h
FPGA I/F
DATA DRIVER
FLASH ROM I/F
DATA DRIVER
IC9651
NEW PLASMA AI
10bit PROCESSOR
SUB-FIELD PROCESSOR
(R Slave) SLV42h
FPGA I/F
FC RAM I/F
DATA DRIVER
IC9605 (2/2)
DISCHARGE
CONTROL
100
DRVRST
IC9601
BUFFER
IC9603
BUFFER
IC9604
BUFFER
PCD,PCU
IC9709
SUB MPU(CONVERTER)
X9702
9,216MHz
22
23
41
Q9301
DRVRST
44 RUSH ON/OFF
45 TV ON/OFF
46 KILL SOS
27 FAN SOS
63 PS SOS
33 ALL OFF1
RESET 19
26 LED G
28 LED R
62 KEY
REMOCON
54 SOS2
1 SOS1
53
54
1
SCL3
SDA3
IC9710
RESET
6
7
STB 5V
STB5V_S
STB5V_M
Q9701
Q9702
Q9596
Q9597
Q9591
Q9594
Q9598
Q9599
Q9592
Q9593
LED G
LED R
KEY
REMOCON
TO C2-BOARD
D32 C21
B3 DRVRST-5V
L-UP
A3 DRVRST
TO C3-BOARD
D33 C31
A38 DRVRST-5V
B37
A37
A36
A36
A33 DRVRST
L-DOWN
TO C1-BOARD
D31 C11
B3 DRVRST-5V
R-UP
A3 DRVRST
TO C4-BOARD
D34 C41
A38 DRVRST-5V
R-DOWN
B38 DRVRST
TO SC-BOARD
D20 SC20
11 SOS1
12 SOS2
TO P-BOARD
D27 P27
RUSH ON/OFF
TV ON/OFF
M POWER
STB5V
KILL SOS
FAN SOS
PS SOS
ALL OFF1
1 RUSH ON/OFF
2 TV ON/OFF
3 M POWER
4 STB5V
5 KILL SOS
6 FAN SOS
7 PS SOS
8 ALL OFF1

TH-42PHD6/TH-42PHW6   D-BOARD (2 of 2) Block Diagram

14.24. D-Board (1 of 15) Schematic Diagram


D-BOARD TZTNP01QJSU (1/15)
A
B
C
D
E
1
2
3
4
Y_S
GND
PB_S
PR_S
HD_S
VD_S
NCLP_S
5V
STB_ON
REAL TIME /INTRA
FAN_CONT
REMOCON_OUT
ALL_OFF
RXD_PC
TXD_PC
RXD_TU
TXD_TU
POWER STATUS
CABLE DET
SOUND MAIN MUTE
RESET
SDA3
SCL3
SDA2
SCL2
SDA1
SCL1
IIC_CONT
STB5V
D3
TO
J-BOARD
(J3)
AM_G
AM_B
AM_R
R9130 100
R9131 100
R9132 100
AL_HD_S
AL_VD_S
AL_NCLP_S
P5V
R9730 100
R9729 100
R9988 0
R9728 0
R9987 0
AA_STB_ON
AA_RTC_INT
AA_FAN_CONT
AA_REMOCON_OUT
AA_ALL_OFF
AR_RXD_PC
AR_TXD_PC
AR_RXD_TU
AR_TXD_TU
R9727
EXB38VR000V
R9986 0
R9726 0
R9984 0
AK_SDA3
AK_SCL3
AK_SDA2
AK_SCL2
AK_SDA1
AK_SCL1
AK_IIC_CONT
R9985 0
R9731 100
TO
J-BOARD
(J6)
D6
TX0G
TX0-
TX0+
TX1G
TX1-
TX1+
TX2G
TX2-
TX2+
TXCG
TXC-
TXC+
TX3G
TX3-
TX3+
DPMS_HD
DPMS_VD
AAU_TX0-
AAU_TX0+
AAR_TX1-
AAR_TX1+
AAN_TX2-
AAN_TX2+
AAS_TXC-
AAS_TXC+
AAT_TX3-
AAT_TX3+
AAF_DPMS_HD
AAF_DPMS_VD
AVR 3.3V
IC9001
C0CBCBD00008
Vcont
Vin
GND
NpVout
C9001 6.3V 10u
C9002 16V 0.1u
C9003 16V 0.1u
C9004 6.3V 10u
C9005 16V 0.1u
C9006 16V 0.1u
C9007 4V 220u
3.3V
D9001
MAZ30360HL
L9001 ELKE103FA
L9002 ELKE103FA
L9003 ELKE103FA
C9008 4V 220u
C9009 4V 220u
C9010 4V 220u
C9011 16V 0.1u
C9012 16V 0.1u
C9013 16V 0.1u
C9014 16V 0.1u
IC9
C0JBA
C9022 16V 0.1u
R9001 EXB38V470JV
R9004 EXB38V470JV
R9006 EXB38V470JV
R9010 EXB38V470JV
R9012 EXB38V470JV
C9016 16V 0.1u
IC9002
C0ZBZ0000551
LVDS/TTL (PARALLEL)
VCC
D21
D20
D19
D18
D17
D16
D15
D14
D13
D12
D11
D10
D9
D8
D7
D6
D5
D22
D23
D24
D25
D26
D27
LVDS GND
Y0-
Y0+
Y1-
Y1+
LVDS VCC
Y2-
Y2+
CLKIN-
CLKIN+
Y3-
Y3+
PLL GND
PLL VCC
R9002 0
R9003 0
R9005 100
R9007 100
R9008 100
R9009 100
R9011 100
C9017 16V 0.1u
C9020 16V 0.1u
AAU_TX0-
AAU_TX0+
AAR_TX1-
AAR_TX1+
AAN_TX2-
AAN_TX2+
AAS_TXC-
AAS_TXC+
AAT_TX3-
AAT_TX3+
C9028 6.3V 10u
C9029 16V 0.1u
IC9005
C0JBAZ001992
BUS SW
AV_R0
AV_R1
AV_R2
AV_R3
AV_R4
AV_R5
AV_R6
AV_R7
AV_G0
AV_G1
AV_G2
AV_G3
AV_G4
AV_G5
AV_G6
AV_G7
AV_B0
AV_B1
AV_B2
AV_B3
AV_B4
AT_R0
AT_R1
AT_R2
AT_R3
AT_R4
AT_R5
AT_R6
AT_R7
AT_G0
AT_G1
AT_G2
AT_G3
AT_G4
AT_G5
AT_G6
AT_G7
AT_B0
AT_B1
AT_B2
AT_B3
AT_B4
AT_B5
AU_HDID_S
AU_VDID_S
A
B
C
D
E
F
G
H
I
J

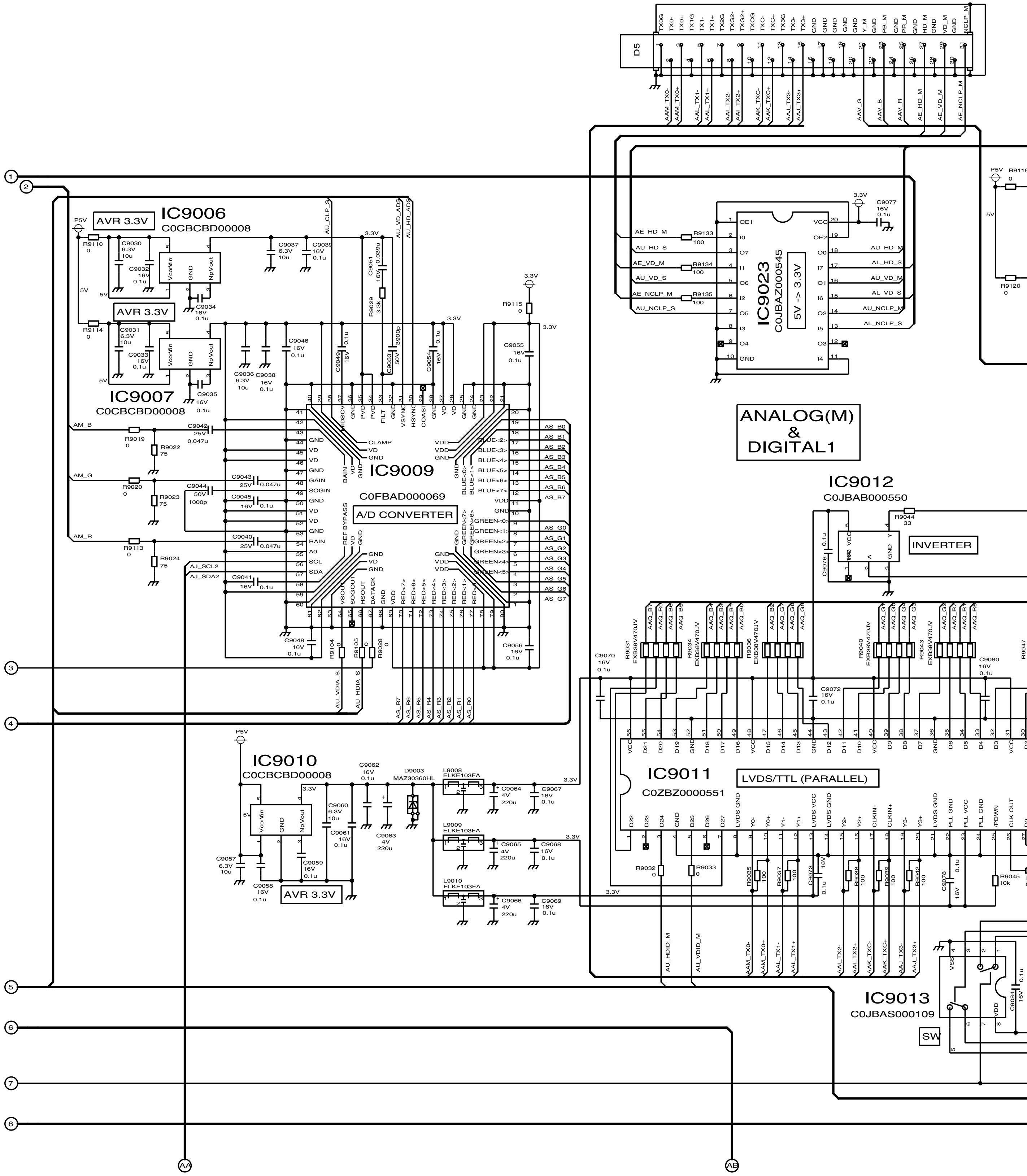
TH-42PHD6/TH-42PHW6
D-BOARD (1 of 15) Schematic Diagram


IC9003
C0JBAB000550
INVERTER
R9015
33
C9022
16V
0.1u
R9010
EXB38V470JV
R9012
EXB38V470JV
C9023
16V
0.1u
R9017
EXB38V470JV
SW
IC9004
C0JBAS000109
C9027
16V
0.1u
ANALOG(S)
&
DIGITAL2
R9016
56
R9009
100
R9011
100
C9020
0.1u
16V
R9014
10k
AAS_TXC+
AAT_TX3-
AAT_TX3+
R9025
10k
C9050
6.3V
10u
C9052
16V
0.1u
IC9008
C0JBAZ001992
BUS SW
R9030
4.7k
R9026
47k
R9027
330
R9018
0
Q9001
2SD0601A0L
5
1992
BUS SW
①
②
③
④
⑤
⑥
⑦
⑧
I
J
K
5
6
7
8

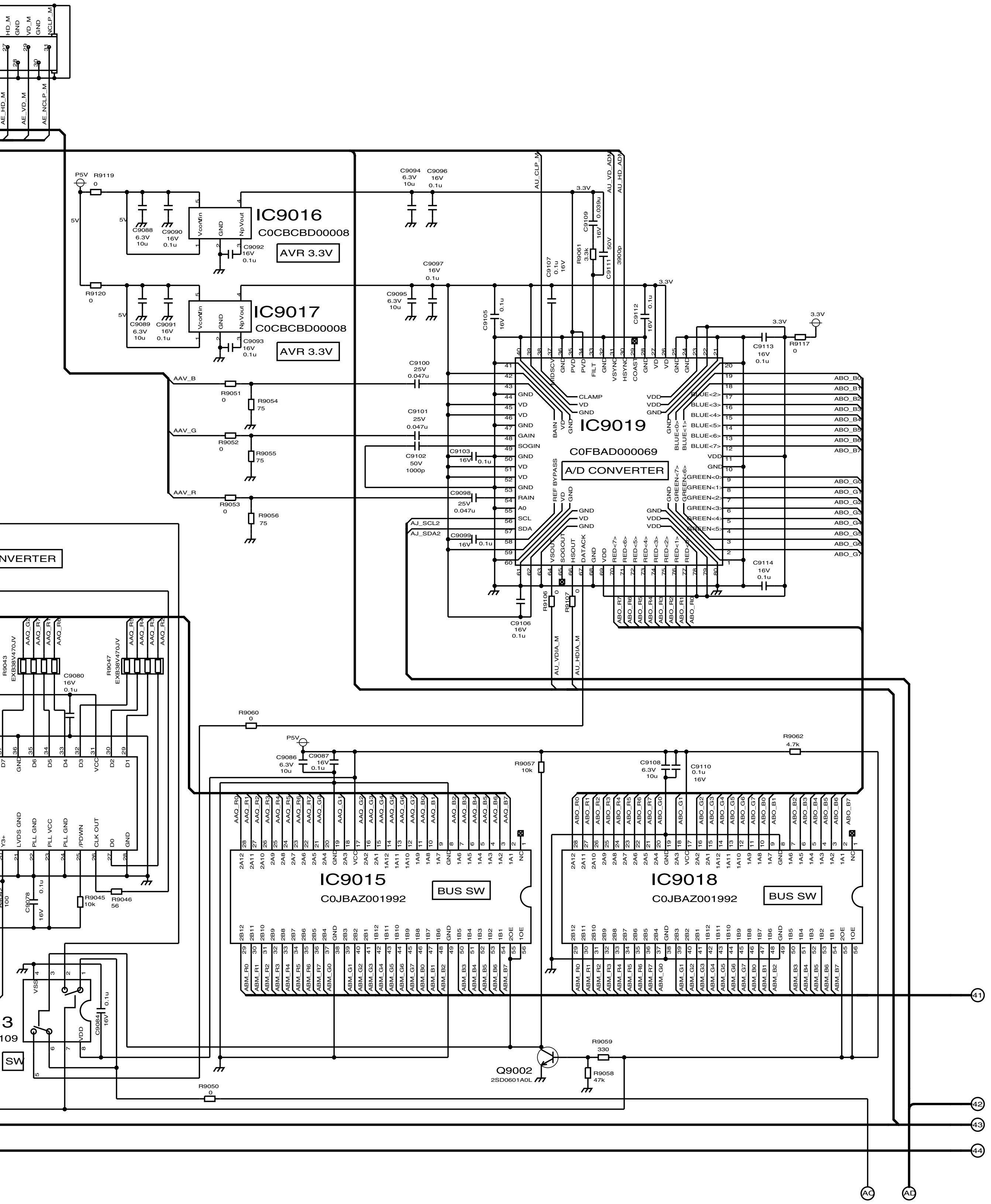
TH-42PHD6/TH-42PHW6
D-BOARD (1 of 15)
Schematic Diagram

14.25. D-Board (2 of 15) Schematic Diagram

D-BOARD TZTNP01QJSU (2/15)


D5
TX0G
TX0-
TX0+
TX1G
TX1-
TX1+
TX2G
TX2-
TX2+
TXCG
TXC-
TXC+
TX3G
TX3-
TX3+
Y_M
PB_M
PR_M
HD_M
VD_M
NCLP_M
AAM_TX0-
AAM_TX0+
AAL_TX1-
AAL_TX1+
AAL_TX2-
AAL_TX2+
AAK_TXC-
AAK_TXC+
AAJ_TX3-
AAJ_TX3+
AAV_G
AAV_B
AAV_R
AE_HD_M
AE_VD_M
AE_NCLP_M
AVR 3.3V
IC9006
C0CBCBD00008
IC9007
C0CBCBD00008
P5V
R9110
R9114
C9030
C9031
C9032
C9033
C9034
C9035
C9036
C9037
C9038
C9039
C9046
C9049
C9051
C9053
C9054
C9055
R9029
R9115
AU_CLP_S
AU_VD_ADS
AU_HD_ADS
IC9009
C0FBAD000069
A/D CONVERTER
CLAMP
VD
GND
SOGIN
GAIN
A0
SCL
SDA
BAIN
REF BYPASS
VSOUT
SOGOUT
HSOUT
DATACK
VDD
MIDSCV
PVD
FILT
VSYNC
HSYNC
COAST
BLUE<0>
BLUE<1>
BLUE<2>
BLUE<3>
BLUE<4>
BLUE<5>
BLUE<6>
BLUE<7>
GREEN<0>
GREEN<1>
GREEN<2>
GREEN<3>
GREEN<4>
GREEN<5>
GREEN<6>
GREEN<7>
RED<0>
RED<1>
RED<2>
RED<3>
RED<4>
RED<5>
RED<6>
RED<7>
AS_B0
AS_B1
AS_B2
AS_B3
AS_B4
AS_B5
AS_B6
AS_B7
AS_G0
AS_G1
AS_G2
AS_G3
AS_G4
AS_G5
AS_G6
AS_G7
AS_R0
AS_R1
AS_R2
AS_R3
AS_R4
AS_R5
AS_R6
AS_R7
AM_B
AM_G
AM_R
R9019
R9020
R9022
R9023
R9024
R9113
C9040
C9041
C9042
C9043
C9044
C9045
C9048
C9056
AJ_SCL2
AJ_SDA2
R9104
R9105
R9028
AU_VDIA_S
AU_HDIA_S
IC9023
C0JBAZ000545
5V -> 3.3V
OE1
OE2
VCC
GND
AE_HD_M
AU_HD_S
AE_VD_M
AU_VD_S
AE_NCLP_M
AU_NCLP_S
AU_HD_M
AL_HD_S
AU_VD_M
AL_VD_S
AU_NCLP_M
AL_NCLP_S
R9133
R9134
R9135
C9077
R9119
R9120
ANALOG(M) & DIGITAL1
IC9012
C0JBAB000550
INVERTER
R9044
C9076
IC9010
C0CBCBD00008
C9057
C9058
C9059
C9060
C9061
C9062
C9063
D9003
MAZ30360HL
L9008
L9009
L9010
ELKE103FA
C9064
C9065
C9066
C9067
C9068
C9069
IC9011
C0ZBZ0000551
LVDS/TTL (PARALLEL)
R9031
R9034
R9036
R9040
R9043
EXB38V470JV
C9070
C9072
C9073
C9078
C9080
R9032
R9033
R9035
R9037
R9038
R9039
R9042
R9045
R9047
AU_HDID_M
AU_VDID_M
IC9013
C0JBAS000109
SW
C9084
VSS
VDD
1
2
3
4
5
6
7
8
AA
AB

TH-42PHD6/TH-42PHW6 D-BOARD (2 of 15) Schematic Diagram

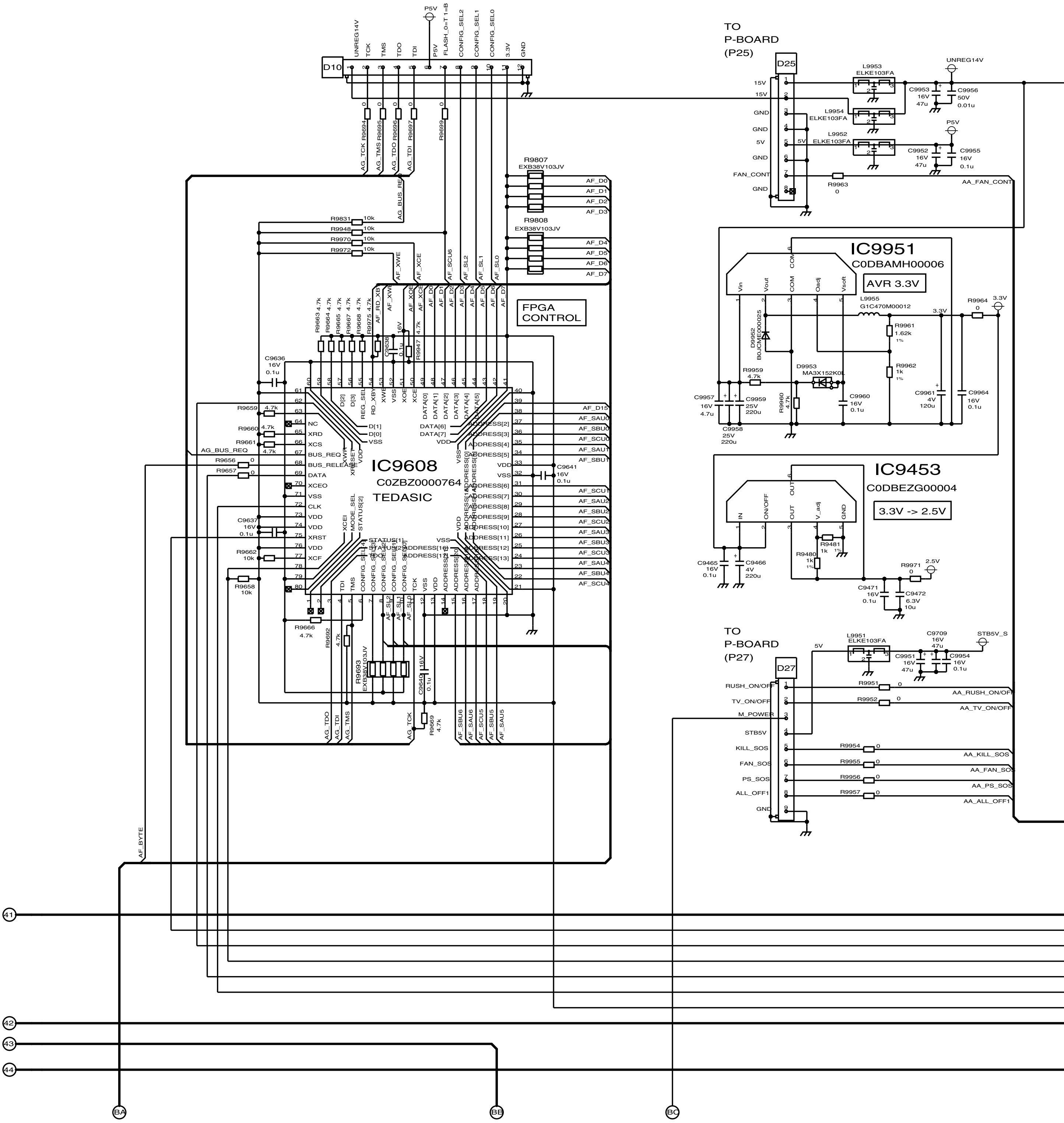

IC9016
C0CBCBD00008
AVR 3.3V
IC9017
C0CBCBD00008
AVR 3.3V
IC9019
C0FBAD000069
A/D CONVERTER
NVERTER
IC9015
C0JBAZ001992
BUS SW
IC9018
C0JBAZ001992
BUS SW
Q9002
2SD0601A0L
AAV_B
AAV_G
AAV_R
AJ_SCL2
AJ_SDA2
AU_CLP_M
AU_VD_ADM
AU_HD_ADM
AU_VDIA_M
AU_HDIA_M
AE_HD_M
AE_VD_M
AE_NCLP_M
P5V
3.3V
41
42
43
44
AC
AD

TH-42PHD6/TH-42PHW6 D-BOARD (2 of 15) Schematic Diagram

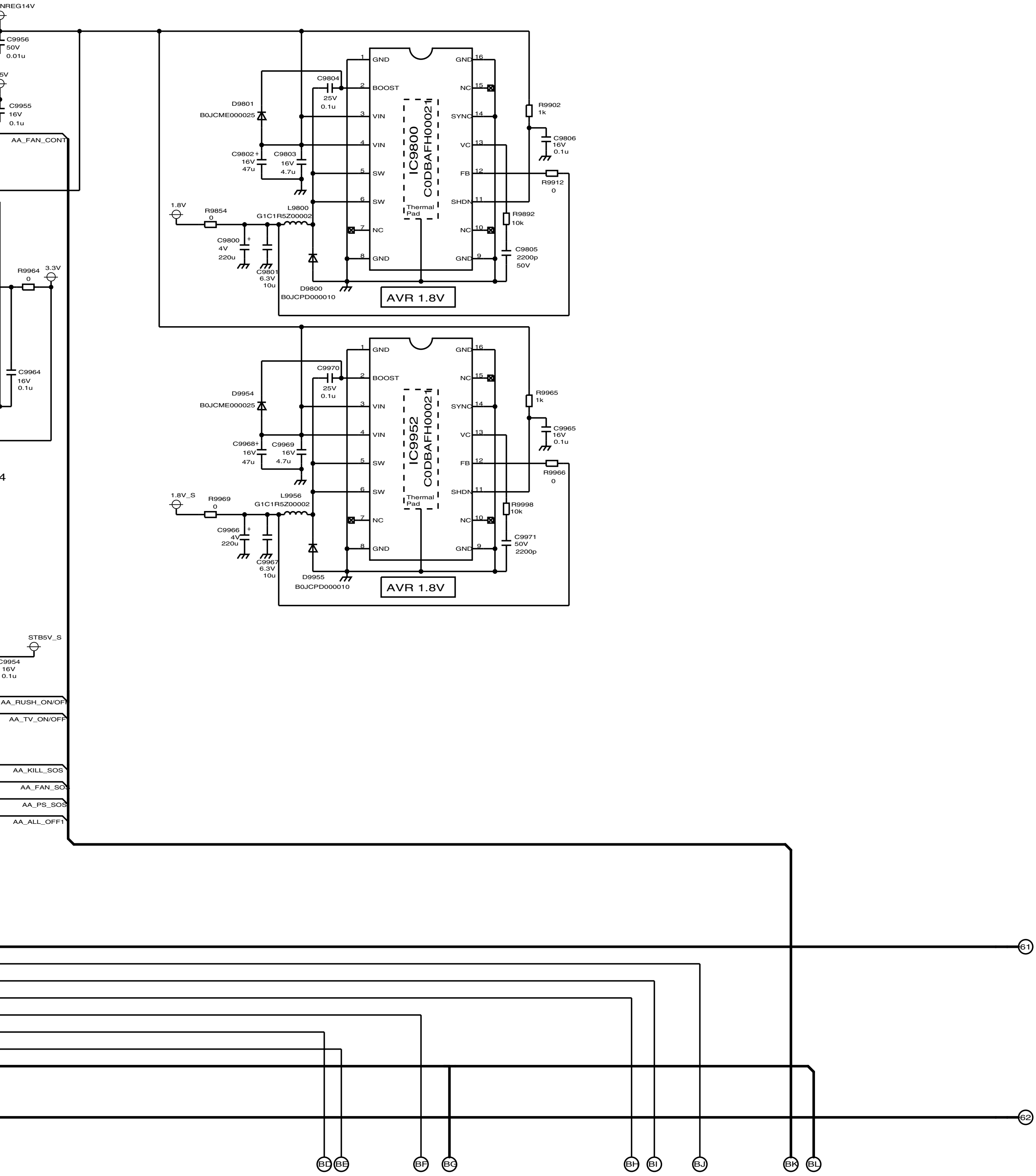
12 13 14 15

14.26. D-Board (3 of 15) Schematic Diagram

⚠ D-BOARD TZTNP01QJSU (3/15)



D10
UNREG14V
TCK
TMS
TDO
TDI
P5V
FLASH_0=T 1=B
CONFIG_SEL2
CONFIG_SEL1
CONFIG_SEL0
3.3V
GND
R9694
R9695
R9696
R9697
R9699
AG_TCK
AG_TMS
AG_TDO
AG_TDI
AG_BUS_REQ
R9807
EXB38V103JV
R9808
AF_D0
AF_D1
AF_D2
AF_D3
AF_D4
AF_D5
AF_D6
AF_D7
R9831 10k
R9948 10k
R9970 10k
R9972 10k
AF_XWE
AF_XCE
AF_SCU6
AF_SL2
AF_SL1
AF_SL0
FPGA CONTROL
IC9608
C0ZBZ0000764
TEDASIC
C9636 16V 0.1u
C9637 16V 0.1u
C9641 16V 0.1u
R9659 4.7k
R9660 4.7k
R9661 4.7k
R9656 0
R9657 0
R9662 10k
R9658 10k
R9666 4.7k
R9692 4.7k
R9693 EXB38V103JV
C9640 16V 0.1u
R9669 4.7k
AG_BUS_REQ
AF_D15
AF_SAU0
AF_SBU0
AF_SCU0
AF_SAU1
AF_SBU1
AF_SCU1
AF_SAU2
AF_SBU2
AF_SCU2
AF_SAU3
AF_SBU3
AF_SCU3
AF_SAU4
AF_SBU4
AF_SCU4
AF_SBU6
AF_SAU6
AF_SCU5
AF_SBU5
AF_SAU5
AF_BYTE
TO P-BOARD (P25)
D25
15V
GND
5V
FAN_CONT
L9953 ELKE103FA
L9954 ELKE103FA
L9952 ELKE103FA
C9953 16V 47u
C9956 50V 0.01u
C9952 16V 47u
C9955 16V 0.1u
UNREG14V
P5V
R9963 0
AA_FAN_CONT
IC9951
C0DBAMH00006
AVR 3.3V
Vin
Vout
COM
Oadj
Vsoft
L9955 G1C470M00012
R9964 0
3.3V
D9962 B0JCME000025
R9961 1.62k
R9962 1k
R9959 4.7k
D9953 MA3X152K0L
R9960 4.7k
C9957 16V 4.7u
C9959 25V 220u
C9958 25V 220u
C9960 16V 0.1u
C9961 4V 120u
C9964 16V 0.1u
IC9453
C0DBEZG00004
3.3V -> 2.5V
IN
ON/OFF
OUT
V_adj
GND
R9481 1k
R9480 1k
C9465 16V 0.1u
C9466 4V 220u
C9471 16V 0.1u
C9472 6.3V 10u
R9971 0
2.5V
TO P-BOARD (P27)
D27
L9951 ELKE103FA
C9709 16V 47u
STB5V_S
C9951 16V 47u
C9954 16V 0.1u
RUSH_ON/OFF
TV_ON/OFF
M_POWER
STB5V
KILL_SOS
FAN_SOS
PS_SOS
ALL_OFF1
GND
R9951 0
R9952 0
R9954 0
R9955 0
R9956 0
R9957 0
AA_RUSH_ON/OFF
AA_TV_ON/OFF
AA_KILL_SOS
AA_FAN_SOS
AA_PS_SOS
AA_ALL_OFF1
41
42
43
44
BA
BB
BC

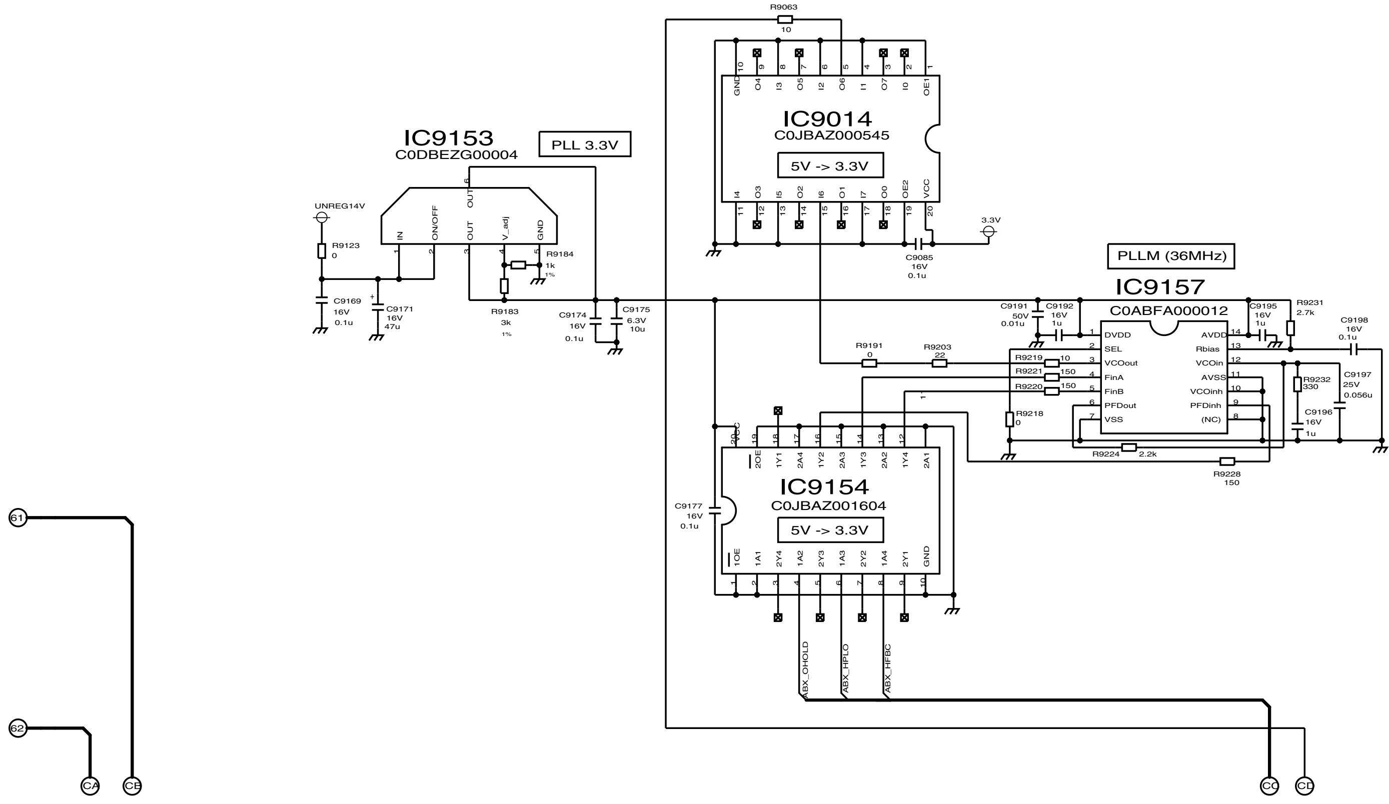

UNREG14V
C9956
50V
0.01u
C9955
16V
0.1u
AA_FAN_CONT
D9801
B0JCME000025
C9804
25V
0.1u
C9802
16V
47u
C9803
16V
4.7u
1.8V
R9854
0
L9800
G1C1R5Z00002
C9800
4V
220u
C9801
6.3V
10u
D9800
B0JCPD000010
IC9800
C0DBAFH00021
Thermal Pad
GND
BOOST
VIN
SW
NC
SYNC
VC
FB
SHDN
R9902
1k
C9806
16V
0.1u
R9912
0
R9892
10k
C9805
2200p
50V
AVR 1.8V
R9964
0
3.3V
C9964
16V
0.1u
D9954
B0JCME000025
C9970
25V
0.1u
C9968
16V
47u
C9969
16V
4.7u
1.8V_S
R9969
0
L9956
G1C1R5Z00002
C9966
4V
220u
C9967
6.3V
10u
D9955
B0JCPD000010
IC9952
C0DBAFH00021
R9965
1k
C9965
16V
0.1u
R9966
0
R9998
10k
C9971
50V
2200p
AVR 1.8V
STB5V_S
C9954
16V
0.1u
AA_RUSH_ON/OFF
AA_TV_ON/OFF
AA_KILL_SOS
AA_FAN_SOS
AA_PS_SOS
AA_ALL_OFF1
61
62
BD
BE
BF
BG
BH
BI
BJ
BK
BL

TH-42PHD6/TH-42PHW6 D-BOARD (3 of 15) Schematic Diagram

20 21 22 23

14.27. D-Board (4 of 15) Schematic Diagram

⚠ D-BOARD TZTNP01QJSU (4/15)


R9063
10
IC9014
C0JBAZ000545
5V -> 3.3V
GND
OE1
VCC
OE2
3.3V
C9085
16V
0.1u
IC9153
C0DBEZG00004
PLL 3.3V
UNREG14V
IN
ON/OFF
OUT
V_adj
GND
R9123
0
C9169
16V
0.1u
C9171
16V
47u
R9184
1k
R9183
3k
C9174
16V
0.1u
C9175
6.3V
10u
PLLM (36MHz)
IC9157
C0ABFA000012
DVDD
SEL
VCOout
FinA
FinB
PFDout
VSS
AVDD
Rbias
VCOin
AVSS
VCOinh
PFDinh
(NC)
C9191
50V
0.01u
C9192
16V
1u
C9195
16V
1u
R9231
2.7k
C9198
16V
0.1u
R9191
0
R9203
22
R9219
10
R9221
150
R9220
150
R9218
0
R9232
330
C9197
25V
0.056u
C9196
16V
1u
R9224
2.2k
R9228
150
IC9154
C0JBAZ001604
5V -> 3.3V
C9177
16V
0.1u
1OE
2OE
VCC
GND
ABX_OHOLD
ABX_HPLO
ABX_HFBC
61
62
CA
CB
CC
CD

TH-42PHD6/TH-42PHW6   D-BOARD (4 of 15) Schematic Diagram

23	24	25	26	27

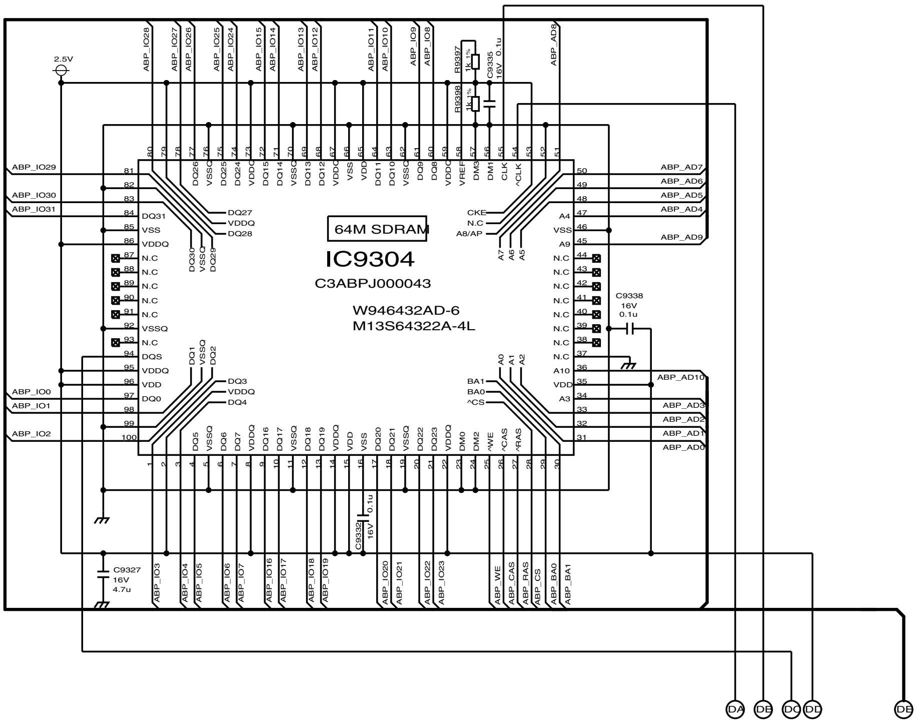
C9195
16V
1u
R9231
2.7k
C9198
16V
0.1u
R9232
330
C9197
25V
0.056u
C9196
16V
1u
4
3
2
1
0
9
8
8
0
CC
CD

TH-42PHD6/TH-42PHW6
D-BOARD (4 of 15) Schematic Diagram

27	28	29	30

14.28. D-Board (5 of 15) Schematic Diagram

⚠ D-BOARD TZTNP01QJSU (5/15)


2.5V
IC9304
64M SDRAM
C3ABPJ000043
W946432AD-6
M13S64322A-4L
R9397
1k 1%
R9398
1k 1%
C9335
16V 0.1u
C9338
16V
0.1u
C9332
16V
0.1u
C9327
16V
4.7u
ABP_IO29
ABP_IO30
ABP_IO31
ABP_IO0
ABP_IO1
ABP_IO2
ABP_IO28
ABP_IO27
ABP_IO26
ABP_IO25
ABP_IO24
ABP_IO15
ABP_IO14
ABP_IO13
ABP_IO12
ABP_IO11
ABP_IO10
ABP_IO9
ABP_IO8
ABP_AD8
ABP_AD7
ABP_AD6
ABP_AD5
ABP_AD4
ABP_AD9
ABP_AD10
ABP_AD3
ABP_AD2
ABP_AD1
ABP_AD0
ABP_IO3
ABP_IO4
ABP_IO5
ABP_IO6
ABP_IO7
ABP_IO16
ABP_IO17
ABP_IO18
ABP_IO19
ABP_IO20
ABP_IO21
ABP_IO22
ABP_IO23
ABP_WE
ABP_CAS
ABP_RAS
ABP_CS
ABP_BA0
ABP_BA1
DQ31
VSS
VDDQ
N.C
VSSQ
DQS
VDD
DQ0
DQ27
VDDQ
DQ28
DQ30
VSSQ
DQ29
DQ1
VSSQ
DQ2
DQ3
VDDQ
DQ4
DQ26
VSSQ
DQ25
DQ24
VDDQ
DQ15
VSSQ
DQ14
DQ13
DQ12
VDDQ
VSS
VDD
DQ11
DQ10
VSSQ
DQ9
DQ8
VDDQ
VREF
DM3
DM1
CLK
^CLK
CKE
N.C
A8/AP
A7
A6
A5
A4
VSS
A9
A0
A1
A2
A10
VDD
A3
BA1
BA0
^CS
DQ5
VSSQ
DQ6
DQ7
VDDQ
DQ16
DQ17
VSSQ
DQ18
DQ19
VDDQ
VDD
VSS
DQ20
DQ21
VSSQ
DQ22
DQ23
VDDQ
DM0
DM2
^WE
^CAS
^RAS
DA
DB
DC
DD
DE

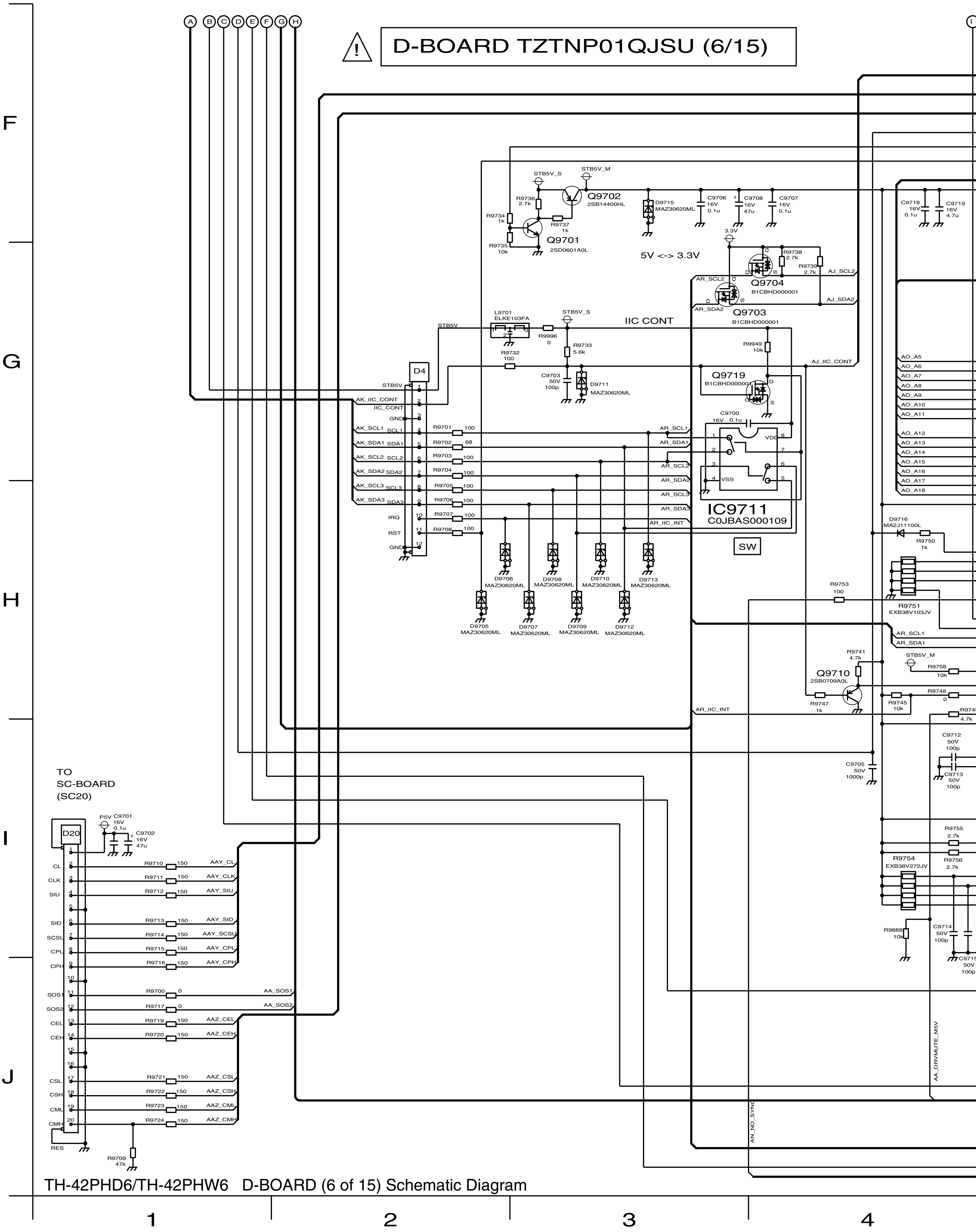
TH-42PHD6/TH-42PHW6
D-BOARD (5 of 15) Schematic Diagram

46	47	48	49

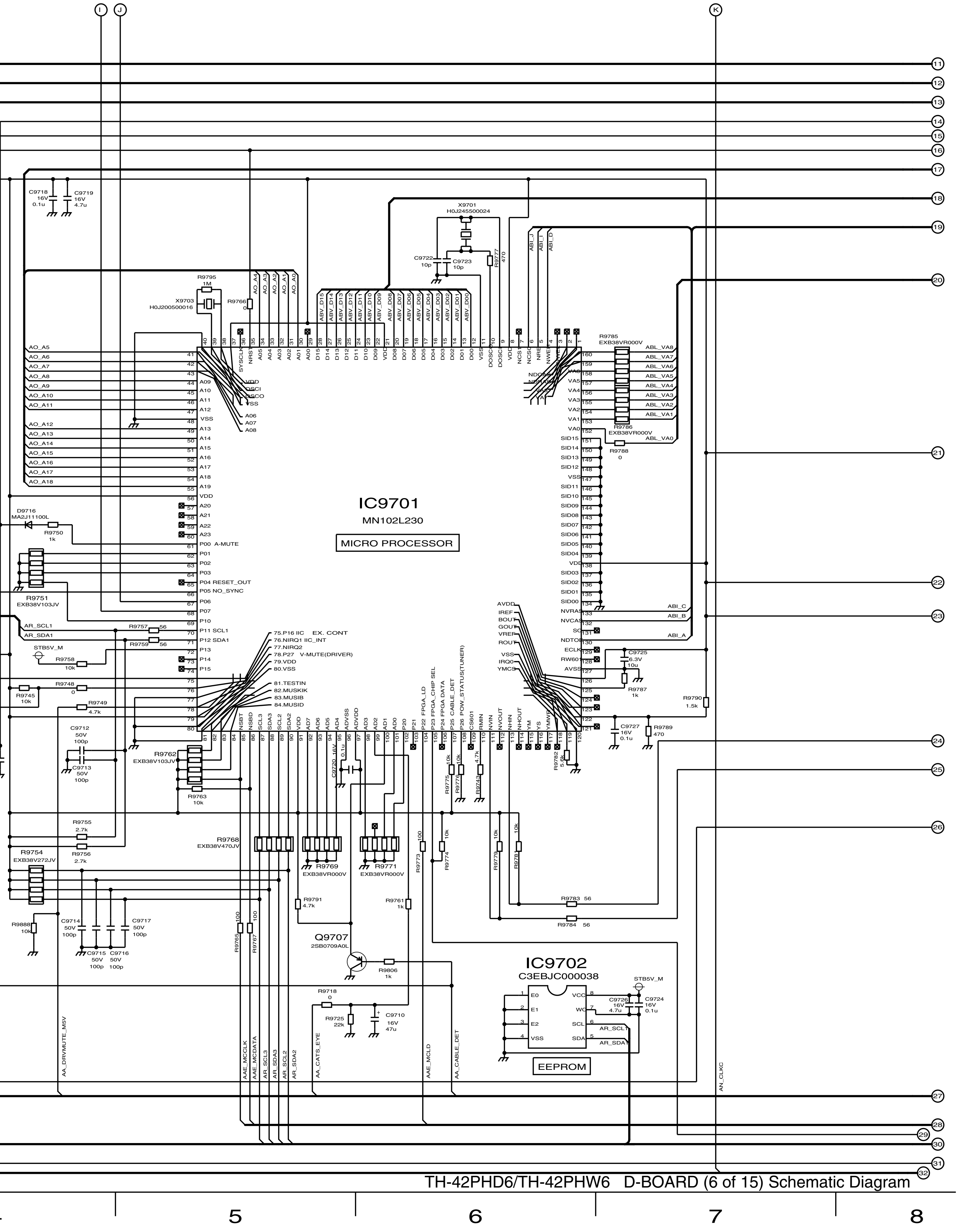
TH-42PHD6/TH-42PHW6
D-BOARD (5 of 15) Schematic Diagram

50 51 52 53

14.29. D-Board (6 of 15) Schematic Diagram

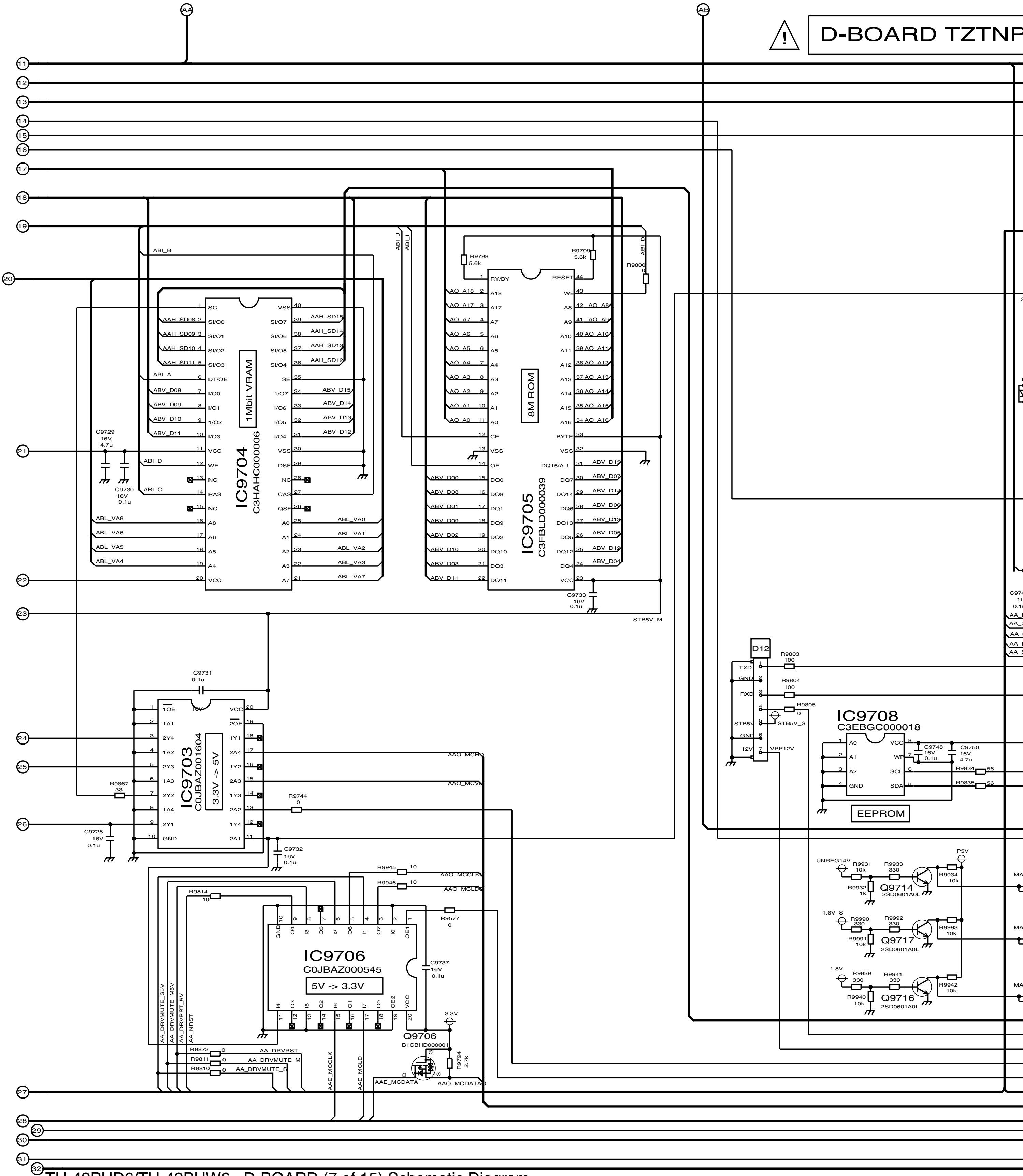

D-BOARD TZTNP01QJSU (6/15)
A
B
C
D
E
F
G
H
I
F
G
H
I
J
1
2
3
4
STB5V_S
STB5V_M
R9736
2.7k
Q9702
2SB14400HL
D9715
MAZ30620ML
C9706
16V
0.1u
C9708
16V
47u
C9707
16V
0.1u
C9718
16V
0.1u
C9719
16V
4.7u
R9734
1k
R9737
1k
R9735
10k
Q9701
2SD0601A0L
3.3V
5V <-> 3.3V
R9738
2.7k
R9739
2.7k
AJ_SCL2
AR_SCL2
Q9704
B1CBHD000001
AJ_SDA2
AR_SDA2
Q9703
B1CBHD000001
L9701
ELKE103FA
STB5V_S
IIC CONT
STB5V
R9996
0
R9733
5.6k
R9949
10k
R9732
100
AJ_IIC_CONT
D4
C9703
50V
100p
D9711
MAZ30620ML
Q9719
B1CBHD000001
STB5V
AK_IIC_CONT
IIC_CONT
GND
AK_SCL1
SCL1
AK_SDA1
SDA1
AK_SCL2
SCL2
AK_SDA2
SDA2
AK_SCL3
SCL3
AK_SDA3
SDA3
IRQ
RST
GND
R9701
100
R9702
68
R9703
100
R9704
100
R9705
100
R9706
100
R9707
100
R9708
100
C9700
16V 0.1u
VDD
VSS
AR_SCL1
AR_SDA1
AR_SCL2
AR_SDA2
AR_SCL3
AR_SDA3
AR_IIC_INT
IC9711
C0JBAS000109
SW
AO_A5
AO_A6
AO_A7
AO_A8
AO_A9
AO_A10
AO_A11
AO_A12
AO_A13
AO_A14
AO_A15
AO_A16
AO_A17
AO_A18
D9716
MA2J11100L
R9750
1k
D9706
MAZ30620ML
D9708
MAZ30620ML
D9710
MAZ30620ML
D9713
MAZ30620ML
D9705
MAZ30620ML
D9707
MAZ30620ML
D9709
MAZ30620ML
D9712
MAZ30620ML
R9753
100
R9751
EXB38V103JV
AR_SCL1
AR_SDA1
STB5V_M
R9741
4.7k
Q9710
2SB0709A0L
R9758
10k
R9748
0
R9747
1k
R9745
10k
AR_IIC_INT
4.7k
C9712
50V
100p
C9705
50V
1000p
C9713
50V
100p
TO
SC-BOARD
(SC20)
P5V
C9701
16V
0.1u
C9702
16V
47u
D20
R9755
2.7k
R9754
EXB38V272JV
R9756
2.7k
R9888
10k
C9714
50V
100p
C9715
50V
100p
CL
CLK
SIU
SID
SCSL
CPL
CPH
SOS1
SOS2
CEL
CEH
CSL
CSH
CML
CMH
RES
R9710
150
AAY_CL
R9711
150
AAY_CLK
R9712
150
AAY_SIU
R9713
150
AAY_SID
R9714
150
AAY_SCSL
R9715
150
AAY_CPL
R9716
150
AAY_CPH
R9700
0
AA_SOS1
R9717
0
AA_SOS2
R9719
150
AAZ_CEL
R9720
150
AAZ_CEH
R9721
150
AAZ_CSL
R9722
150
AAZ_CSH
R9723
150
AAZ_CML
R9724
150
AAZ_CMH
R9709
47k
AA_DRVMUTE_M5V
AN_NO_SYNC

TH-42PHD6/TH-42PHW6 D-BOARD (6 of 15) Schematic Diagram


IC9701
MN102L230
MICRO PROCESSOR
IC9702
C3EBJC000038
EEPROM
Q9707
2SB0709A0L
X9701
H0J245500024
X9703
H0J200500016
D9716
MA2J11100L
R9751
EXB38V103JV
R9754
EXB38V272JV
R9762
EXB38V103JV
R9768
EXB38V470JV
R9769
EXB38VR000V
R9771
EXB38VR000V
R9785
EXB38VR000V
R9786
EXB38VR000V
STB5V_M
AR_SCL1
AR_SDA1
AA_DRVMUTE_M5V
AAE_MCCLK
AAE_MCDATA
AR_SCL3
AR_SDA3
AR_SCL2
AR_SDA2
AA_CATS_EYE
AAE_MCLD
AA_CABLE_DET
AN_CLKC
ABL_VA0
ABL_VA1
ABL_VA2
ABL_VA3
ABL_VA4
ABL_VA5
ABL_VA6
ABL_VA7
ABL_VA8
ABI_A
ABI_B
ABI_C
ABI_D
ABI_J
ABI_K
I
J
K
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
5
6
7
8

TH-42PHD6/TH-42PHW6 D-BOARD (6 of 15) Schematic Diagram

14.30. D-Board (7 of 15) Schematic Diagram


AA
AB
D-BOARD TZTNP
IC9704
C3HAHC000006
1Mbit VRAM
IC9705
C3FBLD000039
8M ROM
IC9703
C0JBAZ001604
3.3V -> 5V
IC9706
C0JBAZ000545
5V -> 3.3V
IC9708
C3EBGC000018
EEPROM
D12
Q9706
B1CBHD000001
Q9714
2SD0601A0L
Q9717
2SD0601A0L
Q9716
2SD0601A0L
C9729 16V 4.7u
C9730 16V 0.1u
C9731 0.1u
C9728 16V 0.1u
C9732 16V 0.1u
C9733 16V 0.1u
C9737 16V 0.1u
C9748 16V 0.1u
C9750 16V 4.7u
R9798 5.6k
R9799 5.6k
R9800 0
R9867 33
R9744 0
R9945 10
R9946 10
R9814 10
R9577 0
R9794 2.7k
R9872 0
R9811 0
R9810 0
R9803 100
R9804 100
R9805 0
R9834 56
R9835 56
R9931 10k
R9932 1k
R9933 330
R9934 10k
R9990 330
R9991 10k
R9992 330
R9993 10k
R9939 330
R9940 10k
R9941 330
R9942 10k
UNREG14V
1.8V_S
1.8V
P5V
3.3V
STB5V_M
STB5V_S
VPP12V
TXD
GND
RXD
STB5V
12V
AAO_MCHD
AAO_MCVD
AAO_MCCLK
AAO_MCLD
AAE_MCCLK
AAE_MCLD
AAE_MCDATA
AAO_MCDATA
AA_DRVRST
AA_DRVMUTE_M
AA_DRVMUTE_S
AA_DRVMUTE_S5V
AA_DRVMUTE_M5V
AA_DRVRST_5V
AA_NRST
ABI_A
ABI_B
ABI_C
ABI_D
ABI_I
ABI_J
ABL_VA0
ABL_VA1
ABL_VA2
ABL_VA3
ABL_VA4
ABL_VA5
ABL_VA6
ABL_VA7
ABL_VA8
AAH_SD08
AAH_SD09
AAH_SD10
AAH_SD11
AAH_SD12
AAH_SD13
AAH_SD14
AAH_SD15
ABV_D00
ABV_D01
ABV_D02
ABV_D03
ABV_D04
ABV_D05
ABV_D06
ABV_D07
ABV_D08
ABV_D09
ABV_D10
ABV_D11
ABV_D12
ABV_D13
ABV_D14
ABV_D15
AO_A0
AO_A1
AO_A2
AO_A3
AO_A4
AO_A5
AO_A6
AO_A7
AO_A8
AO_A9
AO_A10
AO_A11
AO_A12
AO_A13
AO_A14
AO_A16
AO_A17
AO_A18
11
12
13
14
15
16
17
18
19
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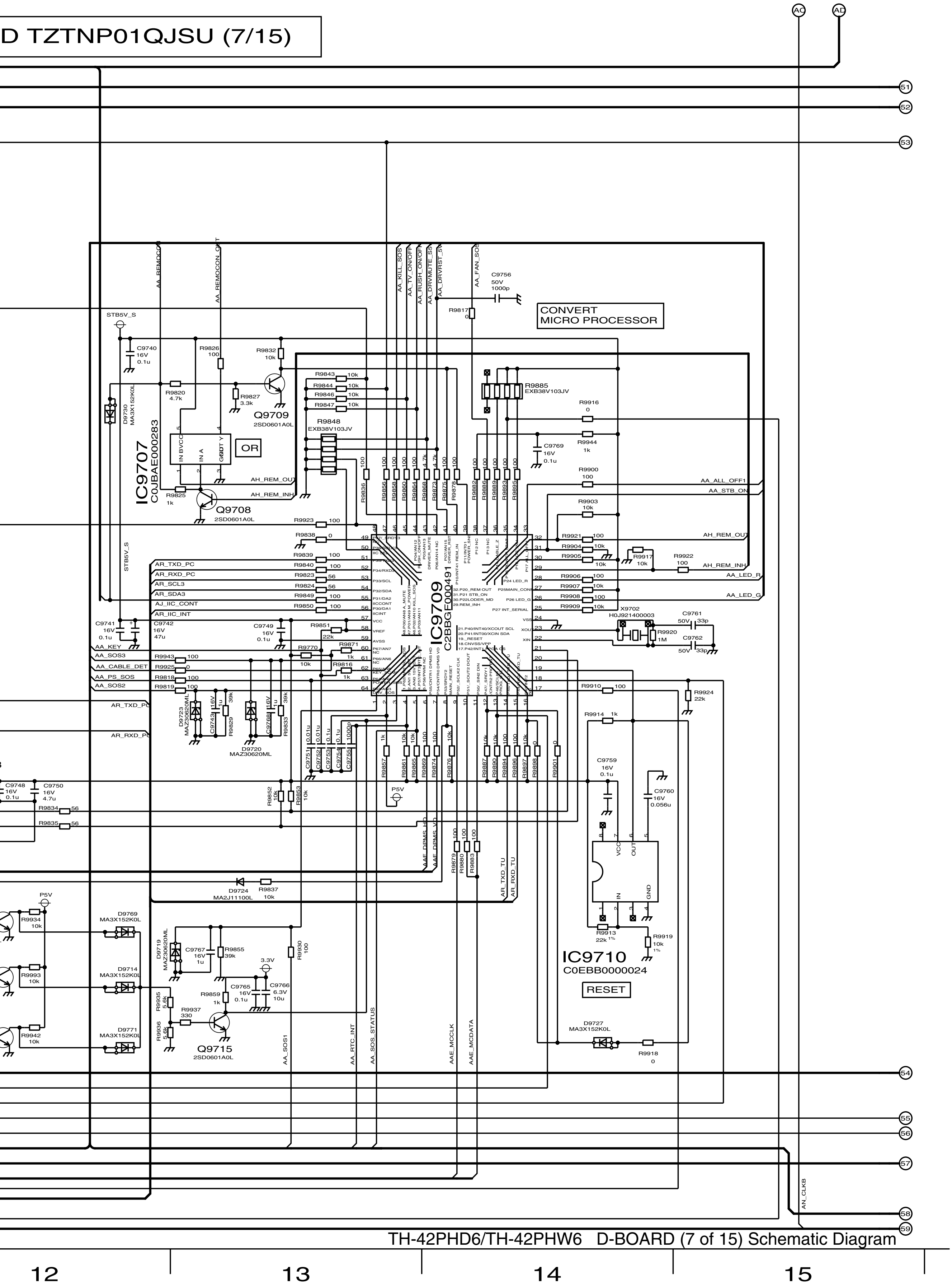
32

TH-42PHD6/TH-42PHW6 D-BOARD (7 of 15) Schematic Diagram

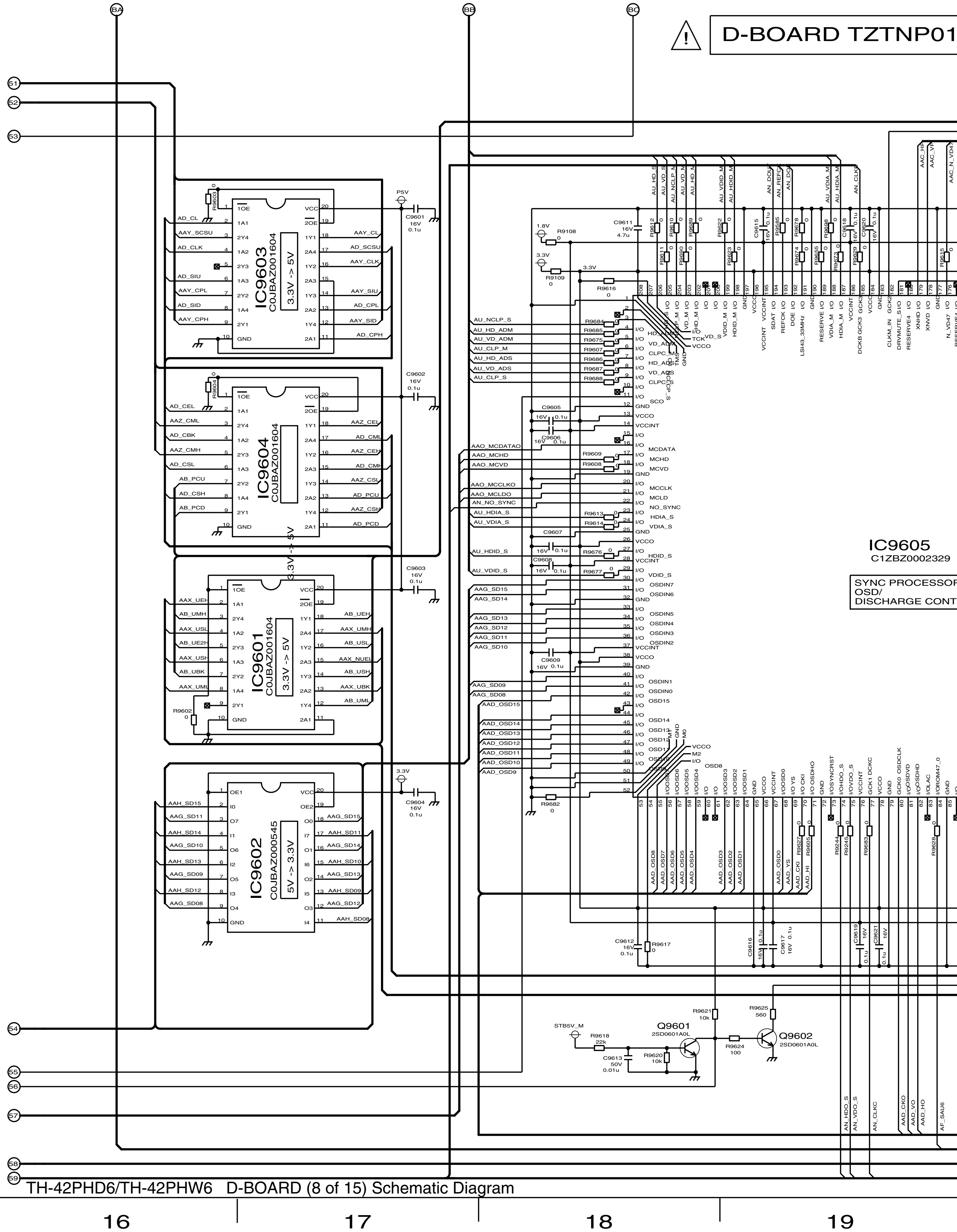
8 9 10 11 12

D TZTNP01QJSU (7/15)

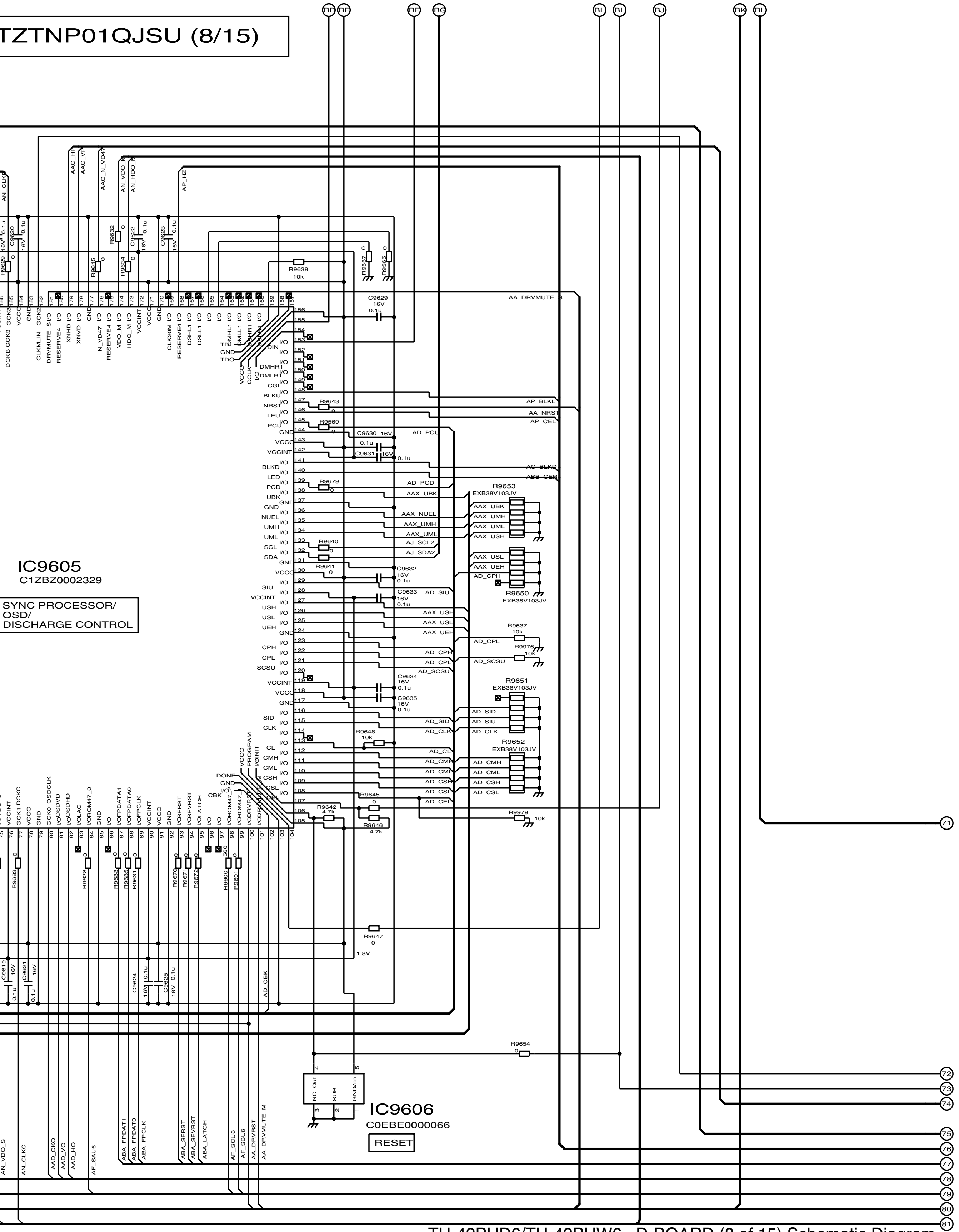

AC
AD
51
52
53
54
55
56
57
58
59
CONVERT
MICRO PROCESSOR
IC9709
C2BBGF000491
IC9707
C0JBAE000283
OR
IC9710
C0EBB0000024
RESET
Q9709
2SD0601A0L
Q9708
2SD0601A0L
Q9715
2SD0601A0L
R9885
EXB38V103JV
R9848
EXB38V103JV
X9702
H0J921400003
C9756
50V
1000p
STB5V_S
AA_REMOCON
AA_REMOCON_OUT
AA_KILL_SOS
AA_TV_ON/OFF
AA_RUSH_ON/OFF
AA_DRVMUTE_5V
AA_DRVRST_5V
AA_FAN_SOS
AH_REM_OUT
AH_REM_INH
AA_ALL_OFF1
AA_STB_ON
AA_LED_R
AA_LED_G
AR_TXD_PC
AR_RXD_PC
AR_SCL3
AR_SDA3
AJ_IIC_CONT
AR_IIC_INT
AA_KEY
AA_SOS3
AA_CABLE_DET
AA_PS_SOS
AA_SOS2
AAE_DPMS_HD
AAE_DPMS_VD
AR_TXD_TU
AR_RXD_TU
AA_SOS1
AA_RTC_INT
AA_SOS_STATUS
AAE_MCCLK
AAE_MCDATA
AN_CLKB
P5V
3.3V
D9730
MA3X152K0L
D9723
MAZ30620ML
D9720
MAZ30620ML
D9724
MA2J11100L
D9769
MA3X152K0L
D9714
MA3X152K0L
D9771
MA3X152K0L
D9719
MAZ30620ML
D9727
MA3X152K0L
12
13
14
15

TH-42PHD6/TH-42PHW6 D-BOARD (7 of 15) Schematic Diagram

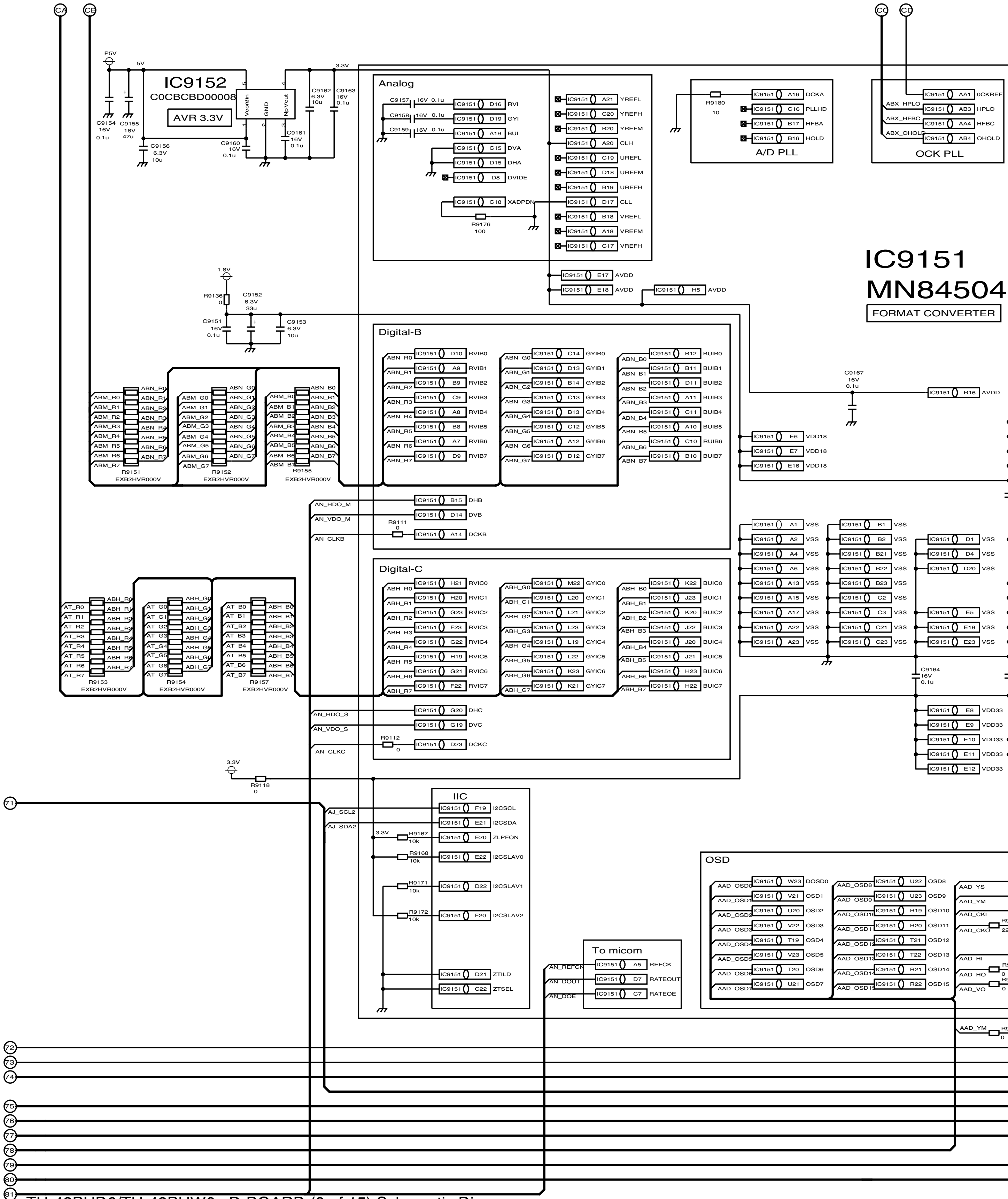
14.31. D-Board (8 of 15) Schematic Diagram


BA
BB
BC
D-BOARD TZTNP01
51
52
53
54
55
56
57
58
59
IC9603
C0JBAZ001604
3.3V -> 5V
IC9604
C0JBAZ001604
5V -> 3.3V
IC9601
C0JBAZ001604
3.3V -> 5V
IC9602
C0JBAZ000545
5V -> 3.3V
IC9605
C1ZBZ0002329
SYNC PROCESSOR
OSD/
DISCHARGE CONT
Q9601
2SD0601A0L
Q9602
2SD0601A0L
STB5V_M
P5V
1.8V
3.3V
C9601 16V 0.1u
C9602 16V 0.1u
C9603 16V 0.1u
C9604 16V 0.1u
C9611 16V 4.7u
C9612 16V 0.1u
C9613 50V 0.01u
R9602 0
R9603 0
R9604 0
R9108 0
R9109 0
R9616 0
R9617 0
R9618 22k
R9620 10k
R9621 10k
R9624 100
R9625 560
R9682 0
AD_CL
AAY_SCSU
AD_CLK
AD_SIU
AAY_CPL
AD_SID
AAY_CPH
AAY_CL
AD_SCSU
AAY_CLK
AAY_SIU
AD_CPL
AAY_SID
AD_CPH
AD_CEL
AAZ_CML
AD_CBK
AAZ_CMH
AD_CSL
AB_PCU
AD_CSH
AB_PCD
AAZ_CEL
AD_CML
AAZ_CEH
AD_CMH
AAZ_CSL
AD_PCU
AAZ_CSH
AD_PCD
AAX_UEH
AB_UMH
AAX_USL
AB_UE2H
AAX_USH
AB_UBK
AAX_UML
AB_UEH
AAX_UMH
AB_USL
AAX_NUEL
AB_USH
AAX_UBK
AB_UML
AAH_SD15
AAG_SD11
AAH_SD14
AAG_SD10
AAH_SD13
AAG_SD09
AAH_SD12
AAG_SD08
AAG_SD15
AAH_SD11
AAG_SD14
AAH_SD10
AAG_SD13
AAH_SD09
AAG_SD12
AAH_SD08
AU_NCLP_S
AU_HD_ADM
AU_VD_ADM
AU_CLP_M
AU_HD_ADS
AU_VD_ADS
AU_CLP_S
AAO_MCDATAO
AAO_MCHD
AAO_MCVD
AAO_MCCLKO
AAO_MCLDO
AN_NO_SYNC
AU_HDIA_S
AU_VDIA_S
AU_HDID_S
AU_VDID_S
AAD_OSD15
AAD_OSD14
AAD_OSD13
AAD_OSD12
AAD_OSD11
AAD_OSD10
AAD_OSD9
AN_HDO_S
AN_VDO_S
AN_CLKC
AAD_CKO
AAD_VO
AAD_HO
AF_SAU6
16
17
18
19

TZTNP01QJSU (8/15)

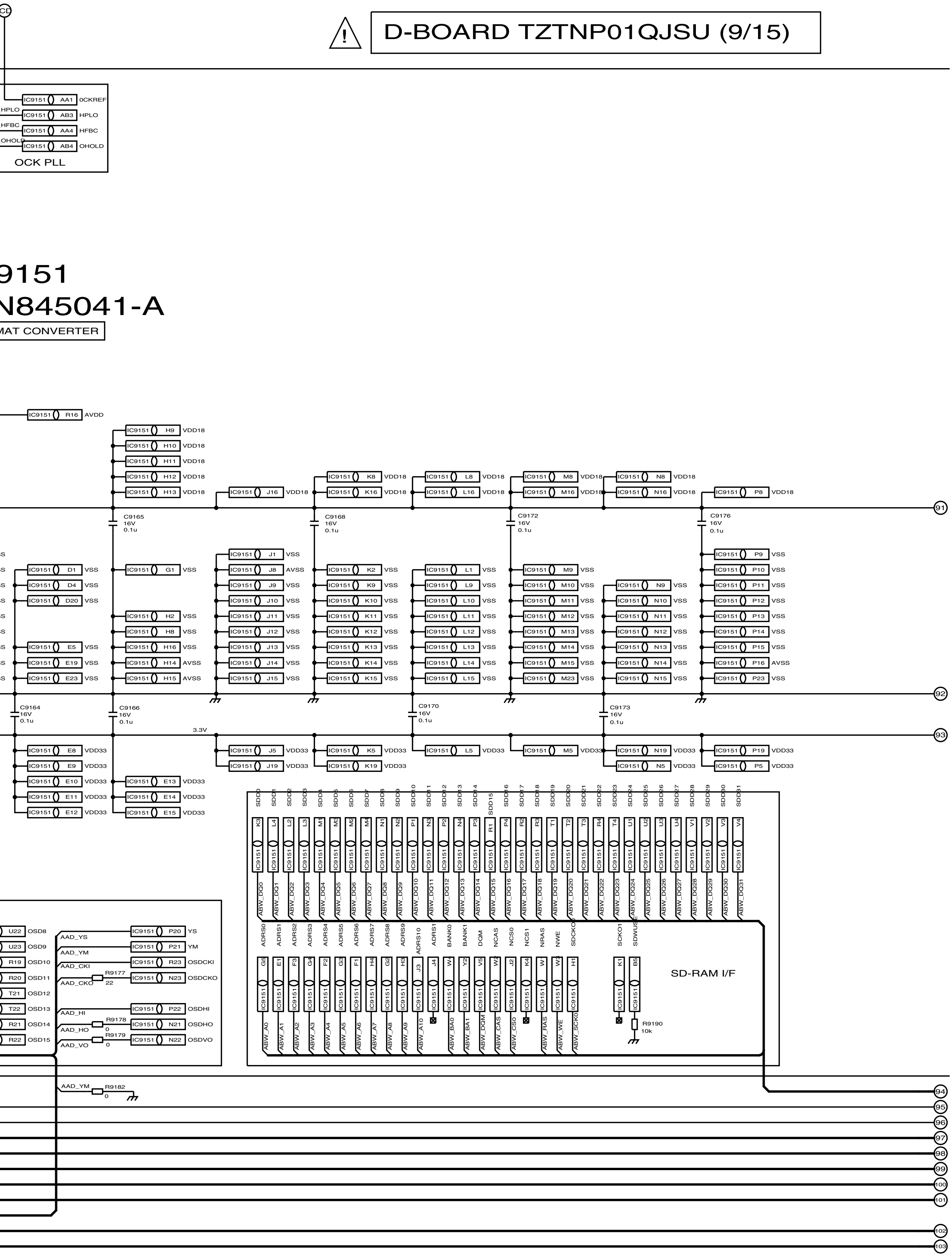

BD
BE
BF
BG
BH
BI
BJ
BK
BL
IC9605
C1ZBZ0002329
SYNC PROCESSOR/
OSD/
DISCHARGE CONTROL
IC9606
C0EBE0000066
RESET
NC Out
SUB
GND
Vcc
R9653
EXB38V103JV
R9650
EXB38V103JV
R9651
EXB38V103JV
R9652
EXB38V103JV
R9637
10k
R9976
10k
R9979
10k
R9654
0
R9647
0
1.8V
R9638
10k
R9648
10k
R9642
4.7k
R9646
4.7k
R9645
0
C9629
16V
0.1u
C9630
C9631
C9632
C9633
C9634
C9635
AA_DRVMUTE_S
AP_BLKL
AA_NRST
AP_CEL
AD_PCU
AC_BLKD
ABB_CED
AD_PCD
AAX_UBK
AAX_NUEL
AAX_UMH
AAX_UML
AAX_USH
AJ_SCL2
AJ_SDA2
AAX_USL
AAX_UEH
AD_CPH
AD_SIU
AD_CPL
AD_SCSU
AD_SID
AD_CLK
AD_CL
AD_CMH
AD_CML
AD_CSH
AD_CSL
AD_CEL
AN_CLKI
AAC_HD
AAC_VD
AAC_N_VD47
AN_VDO_S
AN_HDO_S
AP_HZ
AN_VDO_S
AN_CLKC
AAD_CKO
AAD_VO
AAD_HO
AF_SAU6
ABA_FPDAT1
ABA_FPDAT0
ABA_FPCLK
ABA_SFRST
ABA_SFVRST
ABA_LATCH
AF_SCU6
AF_SBU6
AA_DRVRST
AA_DRVMUTE_M
AD_CBK
71
72
73
74
75
76
77
78
79
80
81

14.32. D-Board (9 of 15) Schematic Diagram


CA
CB
CC
CD
P5V
5V
3.3V
1.8V
IC9152
C0CBCBD00008
AVR 3.3V
Vcont
Vin
GND
Np
Vout
C9154 16V 0.1u
C9155 16V 47u
C9156 6.3V 10u
C9160 16V 0.1u
C9161 16V 0.1u
C9162 6.3V 10u
C9163 16V 0.1u
Analog
C9157 16V 0.1u
C9158 16V 0.1u
C9159 16V 0.1u
R9176 100
Digital-B
Digital-C
IIC
To micom
OSD
A/D PLL
OCK PLL
R9180 10
IC9151
MN84504
FORMAT CONVERTER
R9136 0
C9151 16V 0.1u
C9152 6.3V 33u
C9153 6.3V 10u
C9167 16V 0.1u
C9164 16V 0.1u
R9151 EXB2HVR000V
R9152 EXB2HVR000V
R9155 EXB2HVR000V
R9153 EXB2HVR000V
R9154 EXB2HVR000V
R9157 EXB2HVR000V
R9111 0
R9112 0
R9118 0
R9167 10k
R9168 10k
R9171 10k
R9172 10k
AN_HDO_M
AN_VDO_M
AN_CLKB
AN_HDO_S
AN_VDO_S
AN_CLKC
AJ_SCL2
AJ_SDA2
AN_REFCK
AN_DOUT
AN_DOE
DHB
DVB
DCKB
DHC
DVC
DCKC
I2CSCL
I2CSDA
ZLPFON
I2CSLAV0
I2CSLAV1
I2CSLAV2
ZTILD
ZTSEL
REFCK
RATEOUT
RATEOE
AVDD
VDD18
VDD33
VSS
71
72
73
74
75
76
77
78
79
80
81
23
24
25
26
27

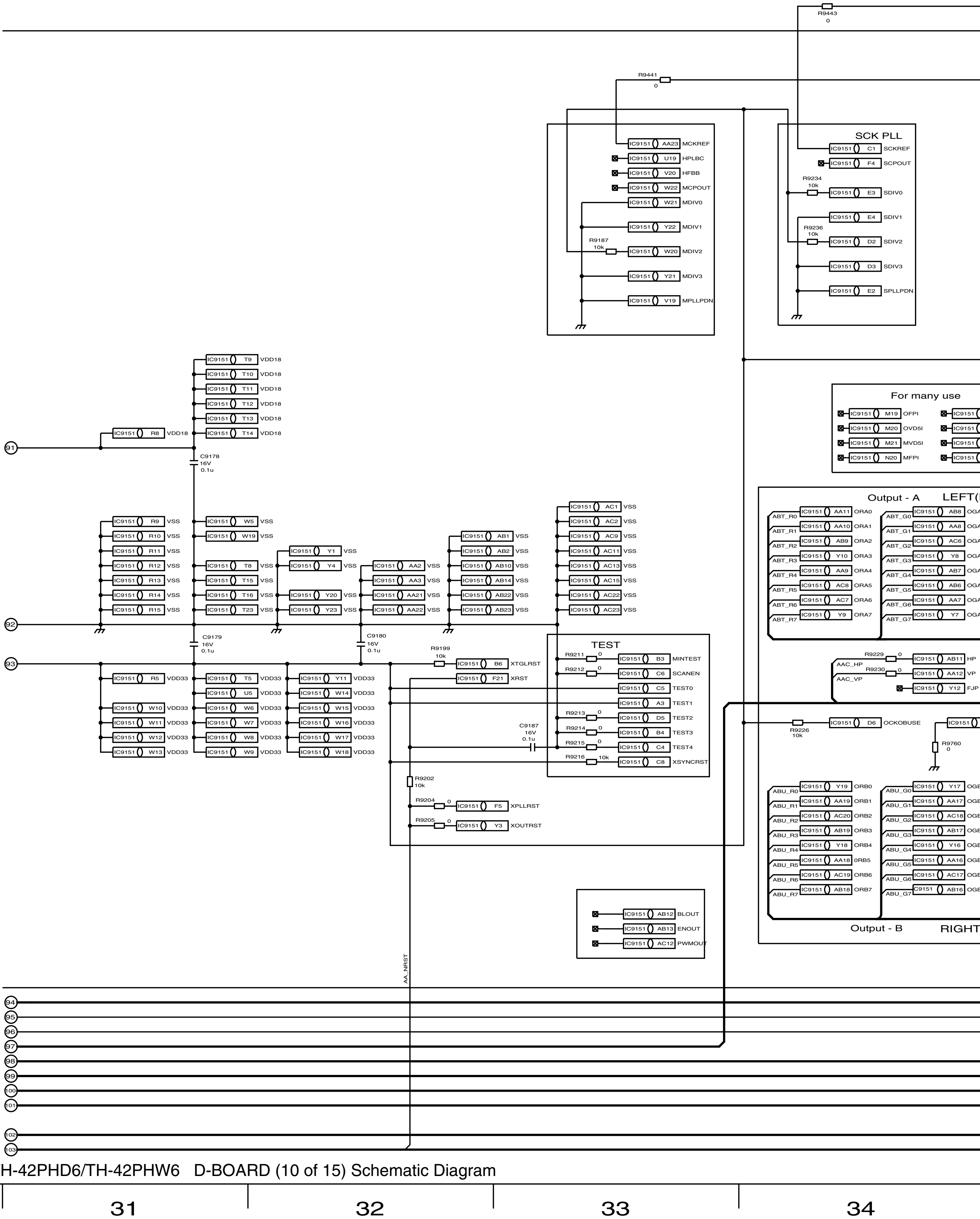
TH-42PHD6/TH-42PHW6 D-BOARD (9 of 15) Schematic Diagram

D-BOARD TZTNP01QJSU (9/15)



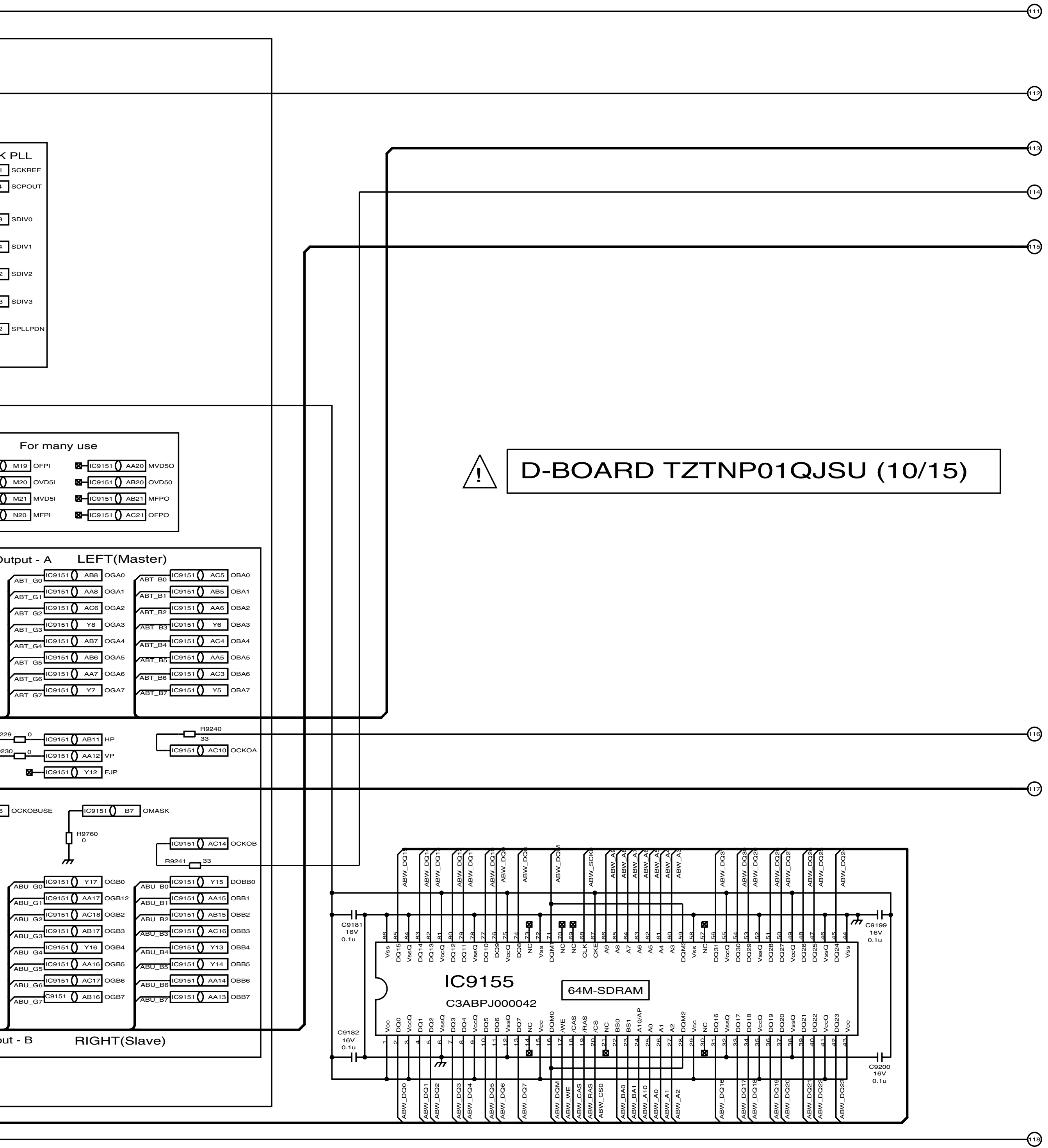
OCK PLL
IC9151 AA1 0CKREF
IC9151 AB3 HPLO
IC9151 AA4 HFBC
IC9151 AB4 OHOLD
9151
N845041-A
MAT CONVERTER
IC9151 R16 AVDD
C9165 16V 0.1u
C9168 16V 0.1u
C9172 16V 0.1u
C9176 16V 0.1u
C9164 16V 0.1u
C9166 16V 0.1u
C9170 16V 0.1u
C9173 16V 0.1u
3.3V
VDD18
VSS
AVSS
VDD33
SD-RAM I/F
AAD_YS
AAD_YM
AAD_CKI
AAD_CKO
AAD_HI
AAD_HO
AAD_VO
R9177 22
R9178 0
R9179 0
R9182 0
R9190 10k
OSDHI
OSDHO
OSDVO
OSDCKI
OSDCKO
YS
YM
91
92
93
94
95
96
97
98
99
100
101
102
103

14.33. D-Board (10 of 15) Schematic Diagram

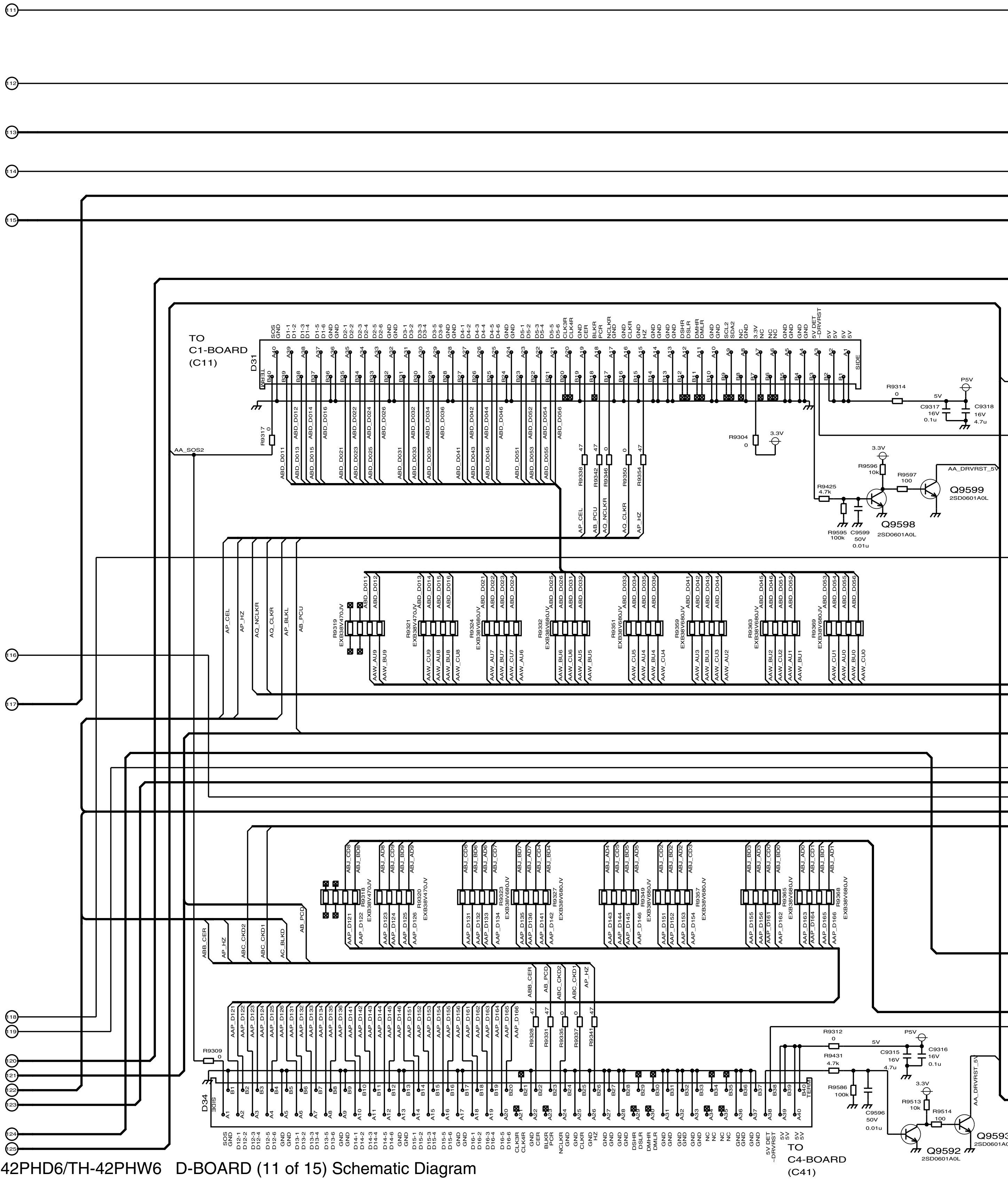


R9443
0
R9441
0
IC9151 AA23 MCKREF
IC9151 U19 HPLBC
IC9151 V20 HFBB
IC9151 W22 MCPOUT
IC9151 W21 MDIV0
IC9151 Y22 MDIV1
R9187
10k
IC9151 W20 MDIV2
IC9151 Y21 MDIV3
IC9151 V19 MPLLPDN
SCK PLL
IC9151 C1 SCKREF
IC9151 F4 SCPOUT
R9234
10k
IC9151 E3 SDIV0
IC9151 E4 SDIV1
R9236
10k
IC9151 D2 SDIV2
IC9151 D3 SDIV3
IC9151 E2 SPLLPDN
IC9151 T9 VDD18
IC9151 T10 VDD18
IC9151 T11 VDD18
IC9151 T12 VDD18
IC9151 T13 VDD18
IC9151 R8 VDD18
IC9151 T14 VDD18
91
C9178
16V
0.1u
For many use
IC9151 M19 OFPI
IC9151 M20 OVD5I
IC9151 M21 MVD5I
IC9151 N20 MFPI
IC9151 R9 VSS
IC9151 R10 VSS
IC9151 R11 VSS
IC9151 R12 VSS
IC9151 R13 VSS
IC9151 R14 VSS
IC9151 R15 VSS
IC9151 W5 VSS
IC9151 W19 VSS
IC9151 T8 VSS
IC9151 T15 VSS
IC9151 T16 VSS
IC9151 T23 VSS
IC9151 Y1 VSS
IC9151 Y4 VSS
IC9151 Y20 VSS
IC9151 Y23 VSS
IC9151 AA2 VSS
IC9151 AA3 VSS
IC9151 AA21 VSS
IC9151 AA22 VSS
IC9151 AB1 VSS
IC9151 AB2 VSS
IC9151 AB10 VSS
IC9151 AB14 VSS
IC9151 AB22 VSS
IC9151 AB23 VSS
IC9151 AC1 VSS
IC9151 AC2 VSS
IC9151 AC9 VSS
IC9151 AC11 VSS
IC9151 AC13 VSS
IC9151 AC15 VSS
IC9151 AC22 VSS
IC9151 AC23 VSS
92
C9179
16V
0.1u
C9180
16V
0.1u
93
IC9151 R5 VDD33
IC9151 W10 VDD33
IC9151 W11 VDD33
IC9151 W12 VDD33
IC9151 W13 VDD33
IC9151 T5 VDD33
IC9151 U5 VDD33
IC9151 W6 VDD33
IC9151 W7 VDD33
IC9151 W8 VDD33
IC9151 W9 VDD33
IC9151 Y11 VDD33
IC9151 W14 VDD33
IC9151 W15 VDD33
IC9151 W16 VDD33
IC9151 W17 VDD33
IC9151 W18 VDD33
R9199
10k
IC9151 B6 XTGLRST
IC9151 F21 XRST
TEST
R9211 0
IC9151 B3 MINTEST
R9212 0
IC9151 C6 SCANEN
IC9151 C5 TEST0
IC9151 A3 TEST1
R9213 0
IC9151 D5 TEST2
R9214 0
IC9151 B4 TEST3
C9187
16V
0.1u
R9215 0
IC9151 C4 TEST4
R9216 10k
IC9151 C8 XSYNCRST
R9202
10k
R9204 0
IC9151 F5 XPLLRST
R9205 0
IC9151 Y3 XOUTRST
IC9151 AB12 BLOUT
IC9151 AB13 ENOUT
IC9151 AC12 PWMOUT
AA_NRST
Output - A
LEFT(
ABT_R0 IC9151 AA11 ORA0
ABT_R1 IC9151 AA10 ORA1
ABT_R2 IC9151 AB9 ORA2
ABT_R3 IC9151 Y10 ORA3
ABT_R4 IC9151 AA9 ORA4
ABT_R5 IC9151 AC8 ORA5
ABT_R6 IC9151 AC7 ORA6
ABT_R7 IC9151 Y9 ORA7
ABT_G0 IC9151 AB8 OGA
ABT_G1 IC9151 AA8 OGA
ABT_G2 IC9151 AC6 OGA
ABT_G3 IC9151 Y8 OGA
ABT_G4 IC9151 AB7 OGA
ABT_G5 IC9151 AB6 OGA
ABT_G6 IC9151 AA7 OGA
ABT_G7 IC9151 Y7 OGA
R9229 0
AAC_HP
IC9151 AB11 HP
R9230 0
AAC_VP
IC9151 AA12 VP
IC9151 Y12 FJP
R9226
10k
IC9151 D6 OCKOBUSE
R9760
0
ABU_R0 IC9151 Y19 ORB0
ABU_R1 IC9151 AA19 ORB1
ABU_R2 IC9151 AC20 ORB2
ABU_R3 IC9151 AB19 ORB3
ABU_R4 IC9151 Y18 ORB4
ABU_R5 IC9151 AA18 ORB5
ABU_R6 IC9151 AC19 ORB6
ABU_R7 IC9151 AB18 ORB7
ABU_G0 IC9151 Y17 OGE
ABU_G1 IC9151 AA17 OGE
ABU_G2 IC9151 AC18 OGE
ABU_G3 IC9151 AB17 OGE
ABU_G4 IC9151 Y16 OGE
ABU_G5 IC9151 AA16 OGE
ABU_G6 IC9151 AC17 OGE
ABU_G7 C9151 AB16 OGE
Output - B
RIGHT
94
95
96
97
98
99
100
101
102
103
31
32
33
34

TH-42PHD6/TH-42PHW6 D-BOARD (10 of 15) Schematic Diagram


D-BOARD TZTNP01QJSU (10/15)
K PLL
SCKREF
SCPOUT
SDIV0
SDIV1
SDIV2
SDIV3
SPLLPDN
For many use
M19 OFPI
M20 OVD5I
M21 MVD5I
N20 MFPI
IC9151 AA20 MVD5O
IC9151 AB20 OVD5O
IC9151 AB21 MFPO
IC9151 AC21 OFPO
Output - A
LEFT(Master)
IC9151 AB8 OGA0
IC9151 AA8 OGA1
IC9151 AC6 OGA2
IC9151 Y8 OGA3
IC9151 AB7 OGA4
IC9151 AB6 OGA5
IC9151 AA7 OGA6
IC9151 Y7 OGA7
IC9151 AC5 OBA0
IC9151 AB5 OBA1
IC9151 AA6 OBA2
IC9151 Y6 OBA3
IC9151 AC4 OBA4
IC9151 AA5 OBA5
IC9151 AC3 OBA6
IC9151 Y5 OBA7
IC9151 AB11 HP
IC9151 AA12 VP
IC9151 Y12 FJP
R9240 33
IC9151 AC10 OCKOA
OCKOBUSE
IC9151 B7 OMASK
R9760 0
IC9151 AC14 OCKOB
R9241 33
IC9151 Y17 OGB0
IC9151 AA17 OGB12
IC9151 AC18 OGB2
IC9151 AB17 OGB3
IC9151 Y16 OGB4
IC9151 AA16 OGB5
IC9151 AC17 OGB6
IC9151 AB16 OGB7
IC9151 Y15 DOBB0
IC9151 AA15 OBB1
IC9151 AB15 OBB2
IC9151 AC16 OBB3
IC9151 Y13 OBB4
IC9151 Y14 OBB5
IC9151 AA14 OBB6
IC9151 AA13 OBB7
out - B
RIGHT(Slave)
IC9155
C3ABPJ000042
64M-SDRAM
C9181 16V 0.1u
C9182 16V 0.1u
C9199 16V 0.1u
C9200 16V 0.1u
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
35
36
37
38

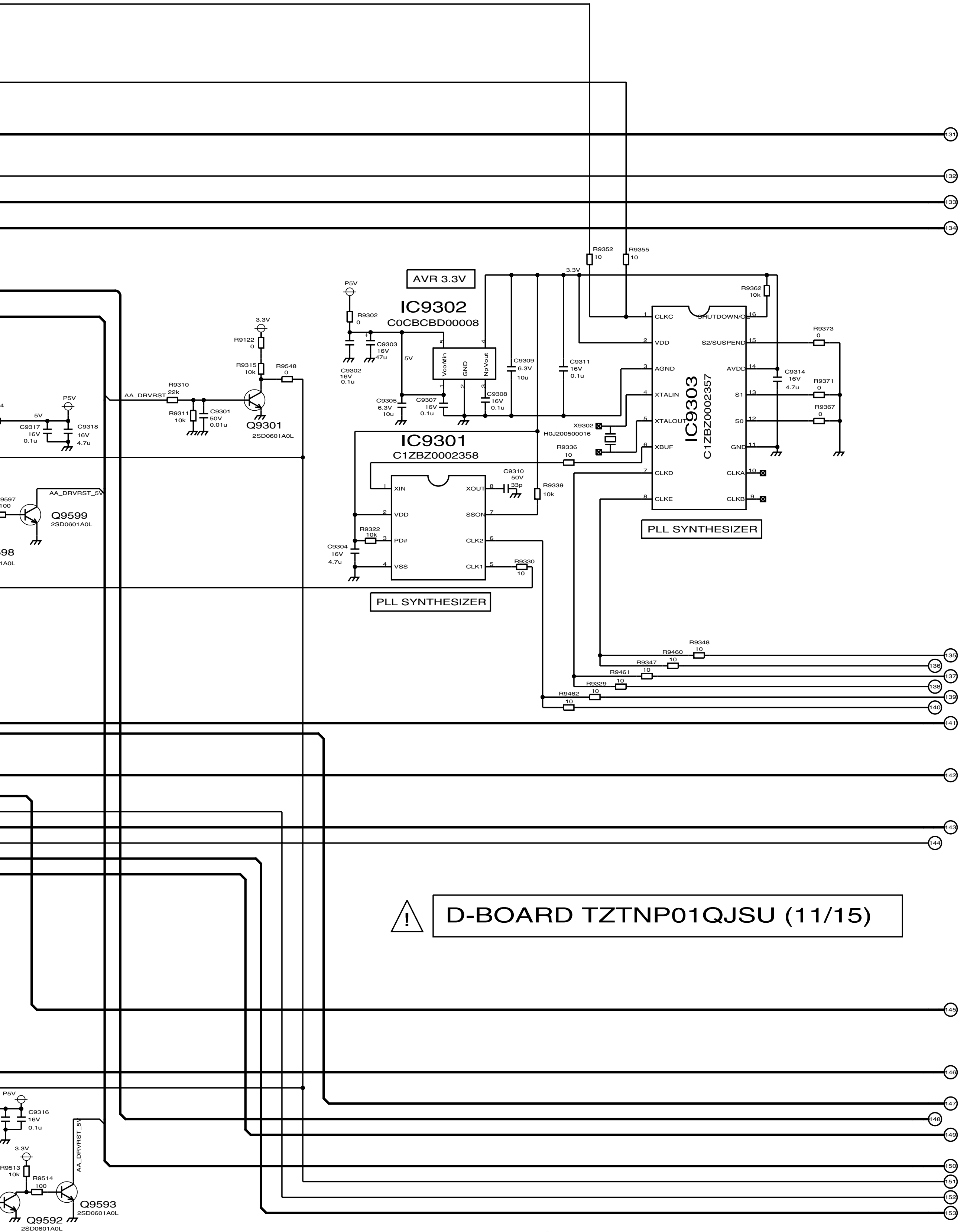
14.34. D-Board (11 of 15) Schematic Diagram



111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
TO
C1-BOARD
(C11)
D31
TERM
SIDE
AA_SOS2
R9317
0
R9338
R9342
R9346
R9350
R9354
AP_CEL
AB_PCU
AQ_NCLKR
AQ_CLKR
AP_HZ
AB_BLKL
R9314
0
5V
P5V
C9317
16V
0.1u
C9318
16V
4.7u
R9304
0
3.3V
R9596
10k
R9597
100
AA_DRVRST_5V
R9425
4.7k
Q9599
2SD0601A0L
Q9598
2SD0601A0L
R9595
100k
C9599
50V
0.01u
R9319
EXB38V470JV
R9321
EXB38V470JV
R9324
EXB38V680JV
R9332
EXB38V680JV
R9351
EXB38V680JV
R9359
EXB38V680JV
R9363
EXB38V680JV
R9369
EXB38V680JV
R9318
EXB38V470JV
R9320
EXB38V470JV
R9323
EXB38V680JV
R9327
EXB38V680JV
R9349
EXB38V680JV
R9357
EXB38V680JV
R9365
EXB38V680JV
R9368
EXB38V680JV
ABB_CER
AP_HZ
ABC_CKD2
ABC_CKD1
AC_BLKD
AB_PCD
R9309
0
R9328
R9331
R9335
R9337
R9341
D34
SIDE
R9312
0
R9431
4.7k
C9315
16V
4.7u
C9316
16V
0.1u
R9586
100k
C9596
50V
0.01u
R9513
10k
R9514
100
Q9592
2SD0601A0L
Q9593
TO
C4-BOARD
(C41)

TH-42PHD6/TH-42PHW6 D-BOARD (11 of 15) Schematic Diagram

38 39 40 41 42

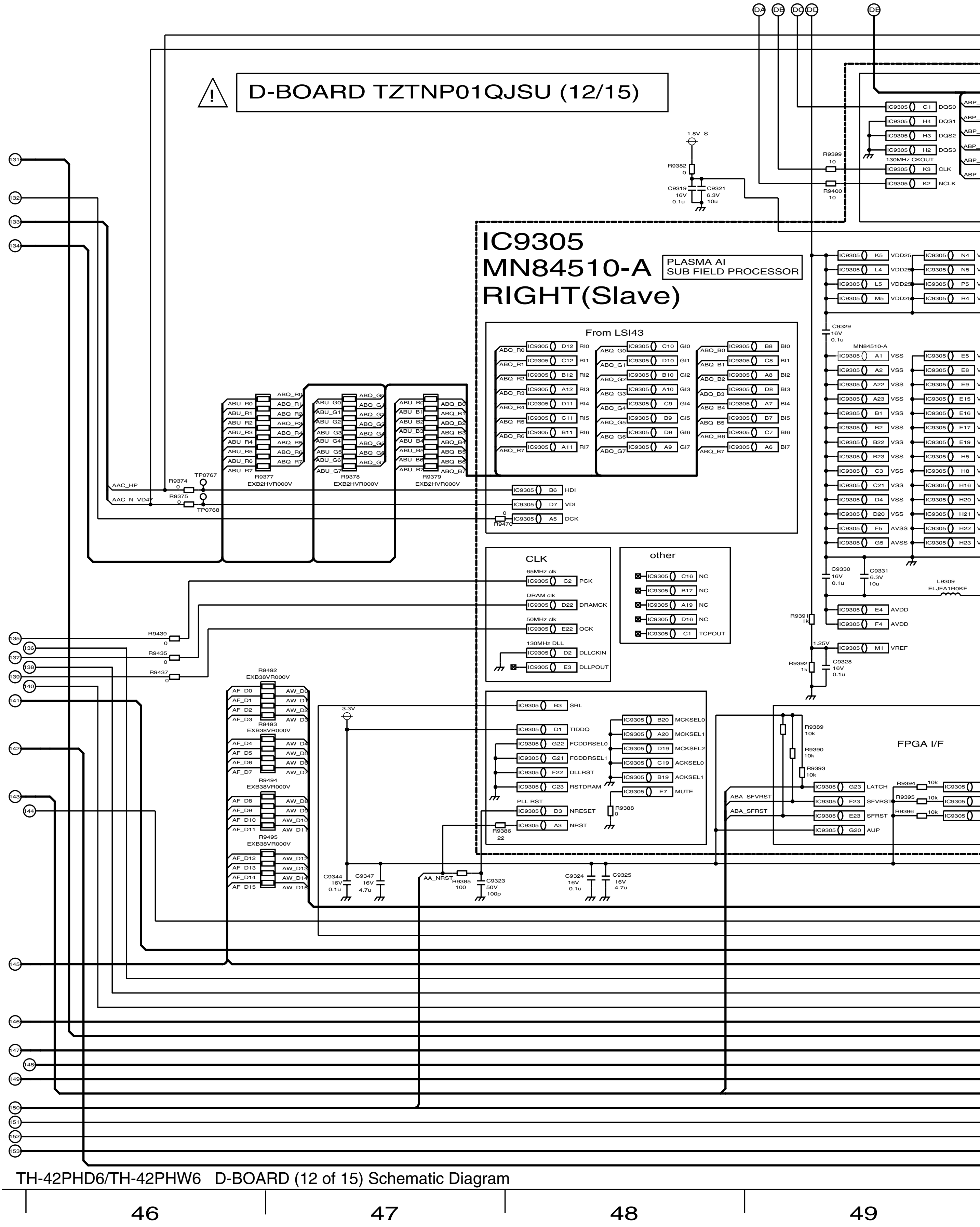


D-BOARD TZTNP01QJSU (11/15)
AVR 3.3V
IC9302
C0CBCBD00008
IC9301
C1ZBZ0002358
IC9303
C1ZBZ0002357
PLL SYNTHESIZER
PLL SYNTHESIZER
Q9301
2SD0601A0L
Q9599
2SD0601A0L
Q9592
2SD0601A0L
Q9593
2SD0601A0L
X9302
H0J200500016
AA_DRVRST
AA_DRVRST_5V
P5V
3.3V
5V
CLKC
VDD
AGND
XTALIN
XTALOUT
XBUF
CLKD
CLKE
SHUTDOWN/OE
S2/SUSPEND
AVDD
S1
S0
GND
CLKA
CLKB
XIN
VDD
PD#
VSS
XOUT
SSON
CLK2
CLK1
Vcon
Vin
GND
Np
Vout
R9352 10
R9355 10
R9362 10k
R9373 0
R9371 0
R9367 0
R9302 0
R9122 0
R9315 10k
R9548 0
R9310 22k
R9311 10k
R9336 10
R9339 10k
R9322 10k
R9330 10
R9348 10
R9460 10
R9347 10
R9461 10
R9329 10
R9462 10
R9513 10k
R9514 100
C9303 16V 47u
C9302 16V 0.1u
C9305 6.3V 10u
C9307 16V 0.1u
C9308 16V 0.1u
C9309 6.3V 10u
C9311 16V 0.1u
C9314 16V 4.7u
C9310 50V 33p
C9304 16V 4.7u
C9301 50V 0.01u
C9317 16V 0.1u
C9318 16V 4.7u
C9316 16V 0.1u
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153

TH-42PHD6/TH-42PHW6 D-BOARD (11 of 15) Schematic Diagram

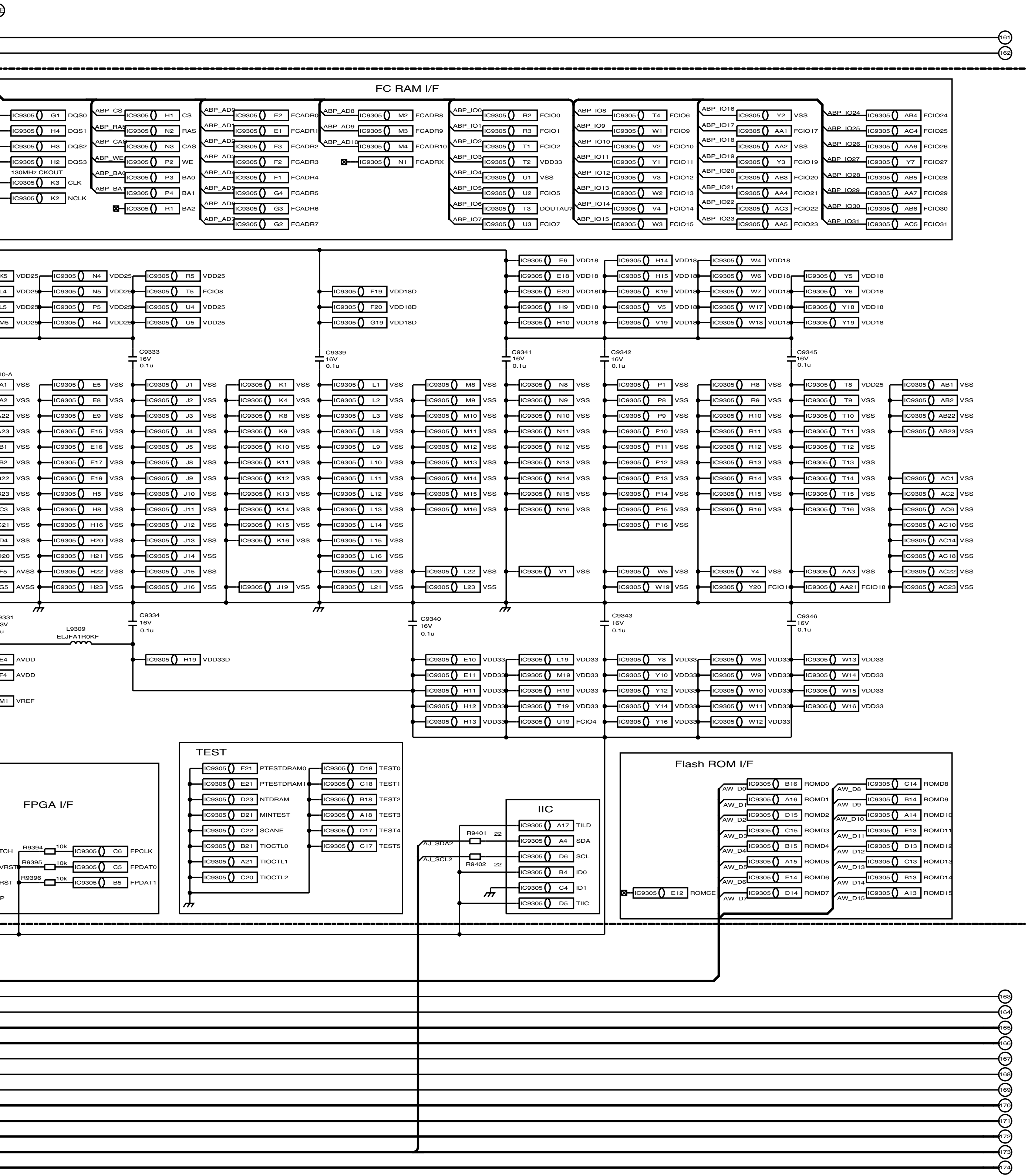
42 43 44 45

14.35. D-Board (12 of 15) Schematic Diagram



D-BOARD TZTNP01QJSU (12/15)
IC9305
MN84510-A
RIGHT(Slave)
PLASMA AI
SUB FIELD PROCESSOR
From LSI43
CLK
other
FPGA I/F
65MHz clk
DRAM clk
50MHz clk
130MHz DLL
130MHz CKOUT
PLL RST
1.8V_S
3.3V
1.25V
AAC_HP
AAC_N_VD47
AA_NRST
ABA_SFVRST
ABA_SFRST
R9377 EXB2HVR000V
R9378 EXB2HVR000V
R9379 EXB2HVR000V
R9492 EXB38VR000V
R9493 EXB38VR000V
R9494 EXB38VR000V
R9495 EXB38VR000V
TP0767
TP0768
L9309 ELJFA1R0KF
MN84510-A
46
47
48
49

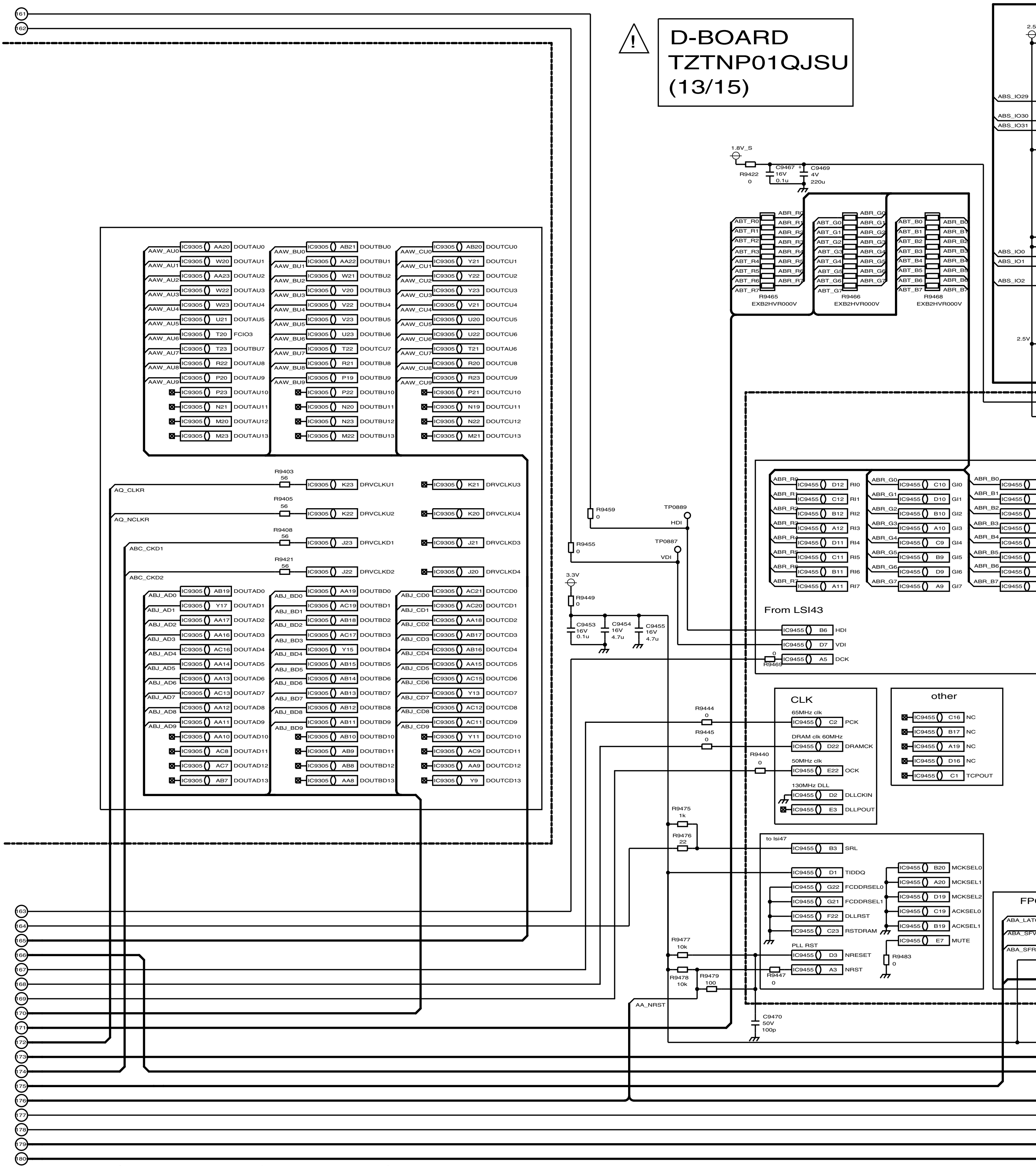
TH-42PHD6/TH-42PHW6 D-BOARD (12 of 15) Schematic Diagram


FC RAM I/F
TEST
FPGA I/F
IIC
Flash ROM I/F
IC9305
C9333 16V 0.1u
C9334 16V 0.1u
C9339 16V 0.1u
C9340 16V 0.1u
C9341 16V 0.1u
C9342 16V 0.1u
C9343 16V 0.1u
C9345 16V 0.1u
C9346 16V 0.1u
L9309 ELJFA1R0KF
R9394 10k
R9395 10k
R9396 10k
R9401 22
R9402 22
AJ_SDA2
AJ_SCL2
ROMCE
130MHz CKOUT

TH-42PHD6/TH-42PHW6 D-BOARD (12 of 15) Schematic Diagram

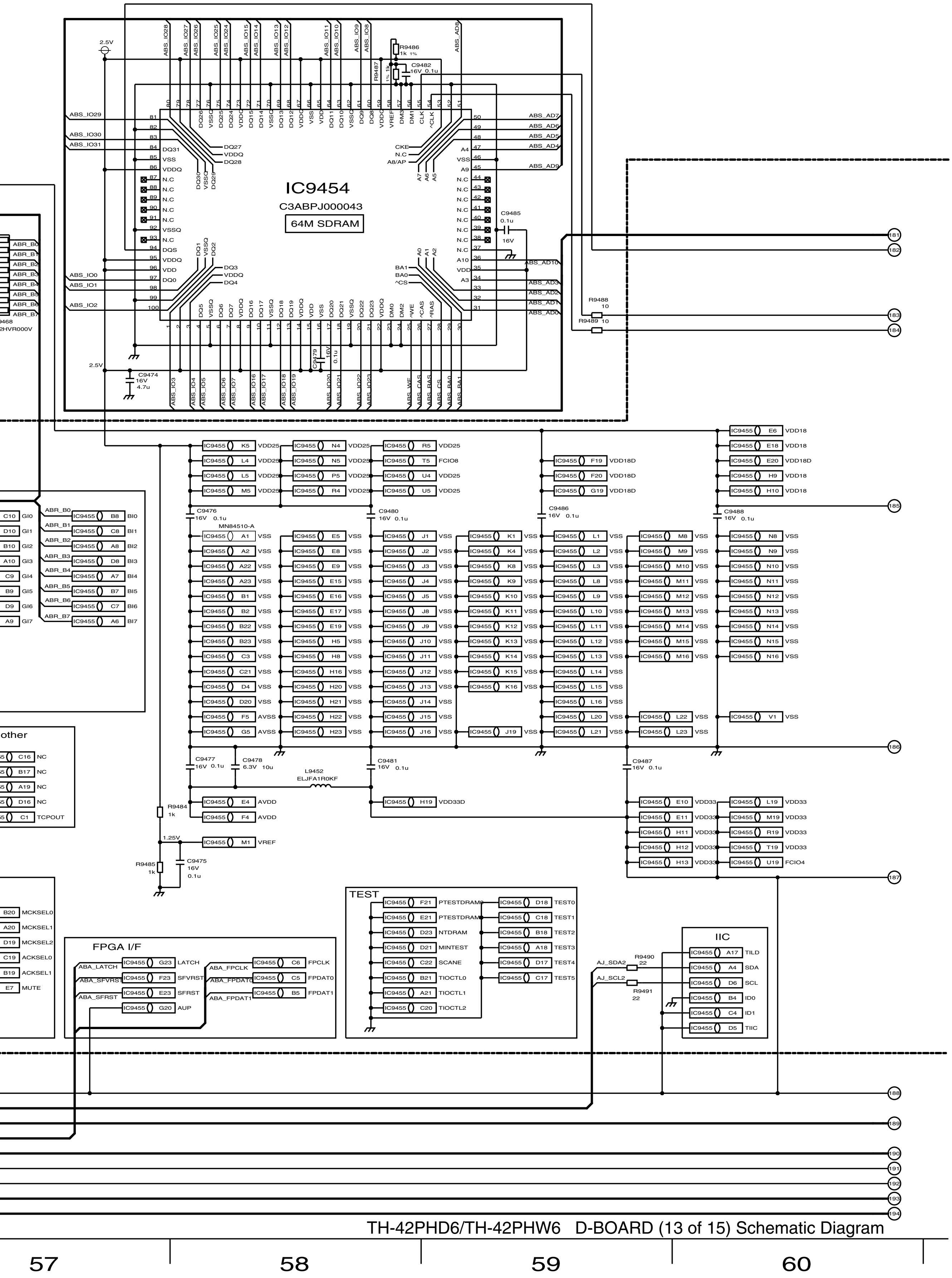
50 51 52 53

14.36. D-Board (13 of 15) Schematic Diagram


D-BOARD
TZTNP01QJSU
(13/15)
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
AAW_AU0 IC9305 AA20 DOUTAU0
AAW_AU1 IC9305 W20 DOUTAU1
AAW_AU2 IC9305 AA23 DOUTAU2
AAW_AU3 IC9305 W22 DOUTAU3
AAW_AU4 IC9305 W23 DOUTAU4
AAW_AU5 IC9305 U21 DOUTAU5
AAW_AU6 IC9305 T20 FCIO3
AAW_AU7 IC9305 T23 DOUTBU7
AAW_AU8 IC9305 R22 DOUTAU8
AAW_AU9 IC9305 P20 DOUTAU9
IC9305 P23 DOUTAU10
IC9305 N21 DOUTAU11
IC9305 M20 DOUTAU12
IC9305 M23 DOUTAU13
AAW_BU0 IC9305 AB21 DOUTBU0
AAW_BU1 IC9305 AA22 DOUTBU1
AAW_BU2 IC9305 W21 DOUTBU2
AAW_BU3 IC9305 V20 DOUTBU3
AAW_BU4 IC9305 V22 DOUTBU4
AAW_BU5 IC9305 V23 DOUTBU5
AAW_BU6 IC9305 U23 DOUTBU6
AAW_BU7 IC9305 T22 DOUTCU7
AAW_BU8 IC9305 R21 DOUTBU8
AAW_BU9 IC9305 P19 DOUTBU9
IC9305 P22 DOUTBU10
IC9305 N20 DOUTBU11
IC9305 N23 DOUTBU12
IC9305 M22 DOUTBU13
AAW_CU0 IC9305 AB20 DOUTCU0
AAW_CU1 IC9305 Y21 DOUTCU1
AAW_CU2 IC9305 Y22 DOUTCU2
AAW_CU3 IC9305 Y23 DOUTCU3
AAW_CU4 IC9305 V21 DOUTCU4
AAW_CU5 IC9305 U20 DOUTCU5
AAW_CU6 IC9305 U22 DOUTCU6
AAW_CU7 IC9305 T21 DOUTAU6
AAW_CU8 IC9305 R20 DOUTCU8
AAW_CU9 IC9305 R23 DOUTCU9
IC9305 P21 DOUTCU10
IC9305 N19 DOUTCU11
IC9305 N22 DOUTCU12
IC9305 M21 DOUTCU13
AQ_CLKR
R9403 56
IC9305 K23 DRVCLKU1
IC9305 K21 DRVCLKU3
AQ_NCLKR
R9405 56
IC9305 K22 DRVCLKU2
IC9305 K20 DRVCLKU4
ABC_CKD1
R9408 56
IC9305 J23 DRVCLKD1
IC9305 J21 DRVCLKD3
ABC_CKD2
R9421 56
IC9305 J22 DRVCLKD2
IC9305 J20 DRVCLKD4
ABJ_AD0 IC9305 AB19 DOUTAD0
ABJ_AD1 IC9305 Y17 DOUTAD1
ABJ_AD2 IC9305 AA17 DOUTAD2
ABJ_AD3 IC9305 AA16 DOUTAD3
ABJ_AD4 IC9305 AC16 DOUTAD4
ABJ_AD5 IC9305 AA14 DOUTAD5
ABJ_AD6 IC9305 AA13 DOUTAD6
ABJ_AD7 IC9305 AC13 DOUTAD7
ABJ_AD8 IC9305 AA12 DOUTAD8
ABJ_AD9 IC9305 AA11 DOUTAD9
IC9305 AA10 DOUTAD10
IC9305 AC8 DOUTAD11
IC9305 AC7 DOUTAD12
IC9305 AB7 DOUTAD13
ABJ_BD0 IC9305 AA19 DOUTBD0
ABJ_BD1 IC9305 AC19 DOUTBD1
ABJ_BD2 IC9305 AB18 DOUTBD2
ABJ_BD3 IC9305 AC17 DOUTBD3
ABJ_BD4 IC9305 Y15 DOUTBD4
ABJ_BD5 IC9305 AB15 DOUTBD5
ABJ_BD6 IC9305 AB14 DOUTBD6
ABJ_BD7 IC9305 AB13 DOUTBD7
ABJ_BD8 IC9305 AB12 DOUTBD8
ABJ_BD9 IC9305 AB11 DOUTBD9
IC9305 AB10 DOUTBD10
IC9305 AB9 DOUTBD11
IC9305 AB8 DOUTBD12
IC9305 AA8 DOUTBD13
ABJ_CD0 IC9305 AC21 DOUTCD0
ABJ_CD1 IC9305 AC20 DOUTCD1
ABJ_CD2 IC9305 AA18 DOUTCD2
ABJ_CD3 IC9305 AB17 DOUTCD3
ABJ_CD4 IC9305 AB16 DOUTCD4
ABJ_CD5 IC9305 AA15 DOUTCD5
ABJ_CD6 IC9305 AC15 DOUTCD6
ABJ_CD7 IC9305 Y13 DOUTCD7
ABJ_CD8 IC9305 AC12 DOUTCD8
ABJ_CD9 IC9305 AC11 DOUTCD9
IC9305 Y11 DOUTCD10
IC9305 AC9 DOUTCD11
IC9305 AA9 DOUTCD12
IC9305 Y9 DOUTCD13
1.8V_S
R9422 0
C9467 16V 0.1u
C9469 4V 220u
ABT_R0 … ABT_R7
ABR_R0 … ABR_R7
R9465 EXB2HVR000V
ABT_G0 … ABT_G7
ABR_G0 … ABR_G7
R9466 EXB2HVR000V
ABT_B0 … ABT_B7
ABR_B0 … ABR_B7
R9468 EXB2HVR000V
ABS_IO29
ABS_IO30
ABS_IO31
ABS_IO0
ABS_IO1
ABS_IO2
2.5V
R9459 0
TP0889 HDI
R9455 0
TP0887 VDI
3.3V
R9449 0
C9453 16V 0.1u
C9454 16V 4.7u
C9455 16V 4.7u
ABR_R0 IC9455 D12 RI0
ABR_R1 IC9455 C12 RI1
ABR_R2 IC9455 B12 RI2
ABR_R3 IC9455 A12 RI3
ABR_R4 IC9455 D11 RI4
ABR_R5 IC9455 C11 RI5
ABR_R6 IC9455 B11 RI6
ABR_R7 IC9455 A11 RI7
ABR_G0 IC9455 C10 GI0
ABR_G1 IC9455 D10 GI1
ABR_G2 IC9455 B10 GI2
ABR_G3 IC9455 A10 GI3
ABR_G4 IC9455 C9 GI4
ABR_G5 IC9455 B9 GI5
ABR_G6 IC9455 D9 GI6
ABR_G7 IC9455 A9 GI7
ABR_B0 … ABR_B7 IC9455
From LSI43
IC9455 B6 HDI
IC9455 D7 VDI
R9469 0 IC9455 A5 DCK
CLK
65MHz clk
R9444 0 IC9455 C2 PCK
DRAM clk 60MHz
R9445 0 IC9455 D22 DRAMCK
50MHz clk
R9440 0 IC9455 E22 OCK
130MHz DLL
IC9455 D2 DLLCKIN
IC9455 E3 DLLPOUT
other
IC9455 C16 NC
IC9455 B17 NC
IC9455 A19 NC
IC9455 D16 NC
IC9455 C1 TCPOUT
R9475 1k
R9476 22
to lsi47
IC9455 B3 SRL
IC9455 D1 TIDDQ
IC9455 G22 FCDDRSEL0
IC9455 G21 FCDDRSEL1
IC9455 F22 DLLRST
IC9455 C23 RSTDRAM
PLL RST
R9477 10k IC9455 D3 NRESET
R9478 10k
R9479 100
R9447 0 IC9455 A3 NRST
IC9455 B20 MCKSEL0
IC9455 A20 MCKSEL1
IC9455 D19 MCKSEL2
IC9455 C19 ACKSEL0
IC9455 B19 ACKSEL1
IC9455 E7 MUTE
R9483 0
AA_NRST
C9470 50V 100p
FP
ABA_LAT
ABA_SFV
ABA_SFR

TH-42PHD6/TH-42PHW6 D-BOARD (13 of 15) Schematic Diagram

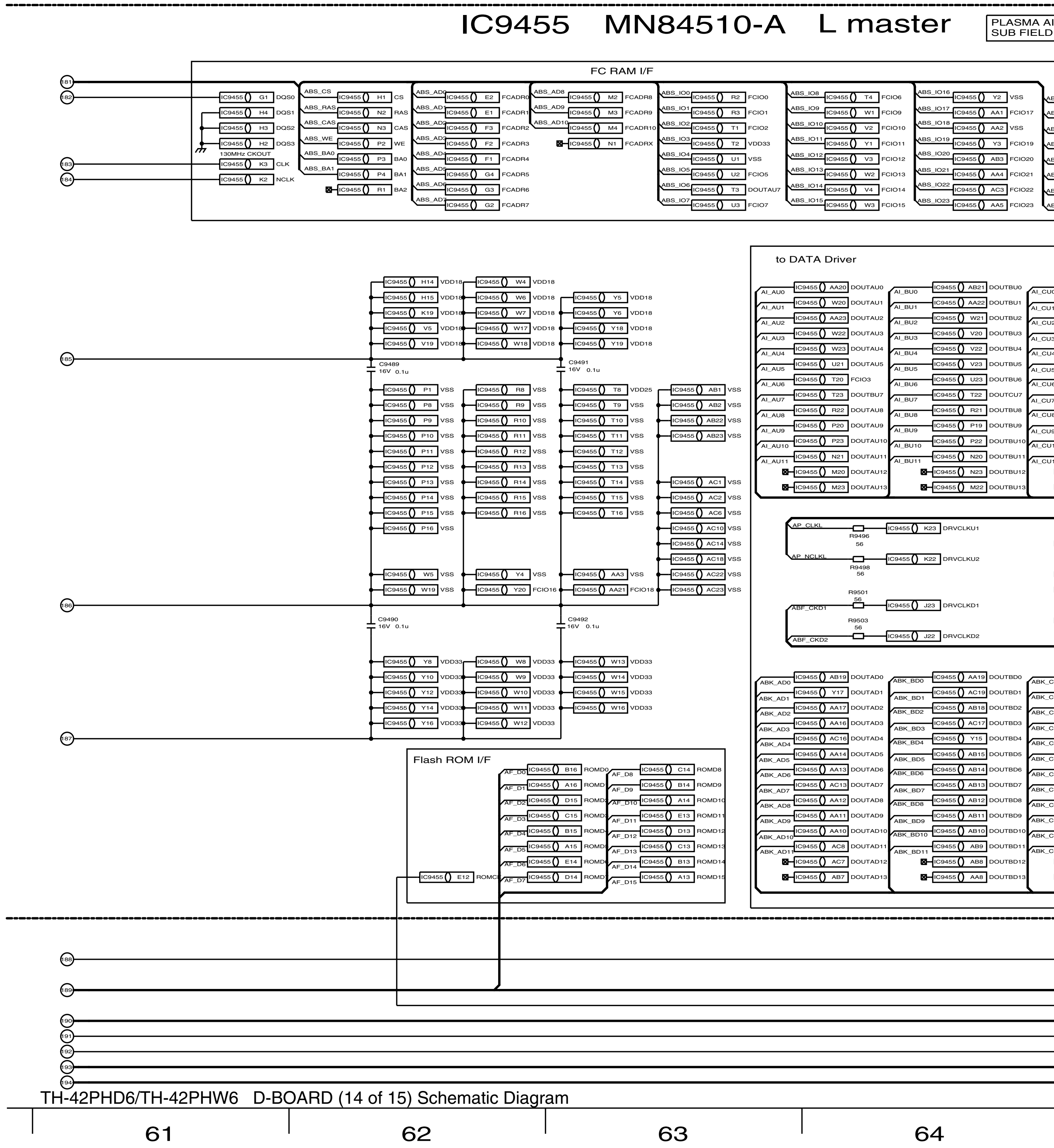
53 54 55 56 57

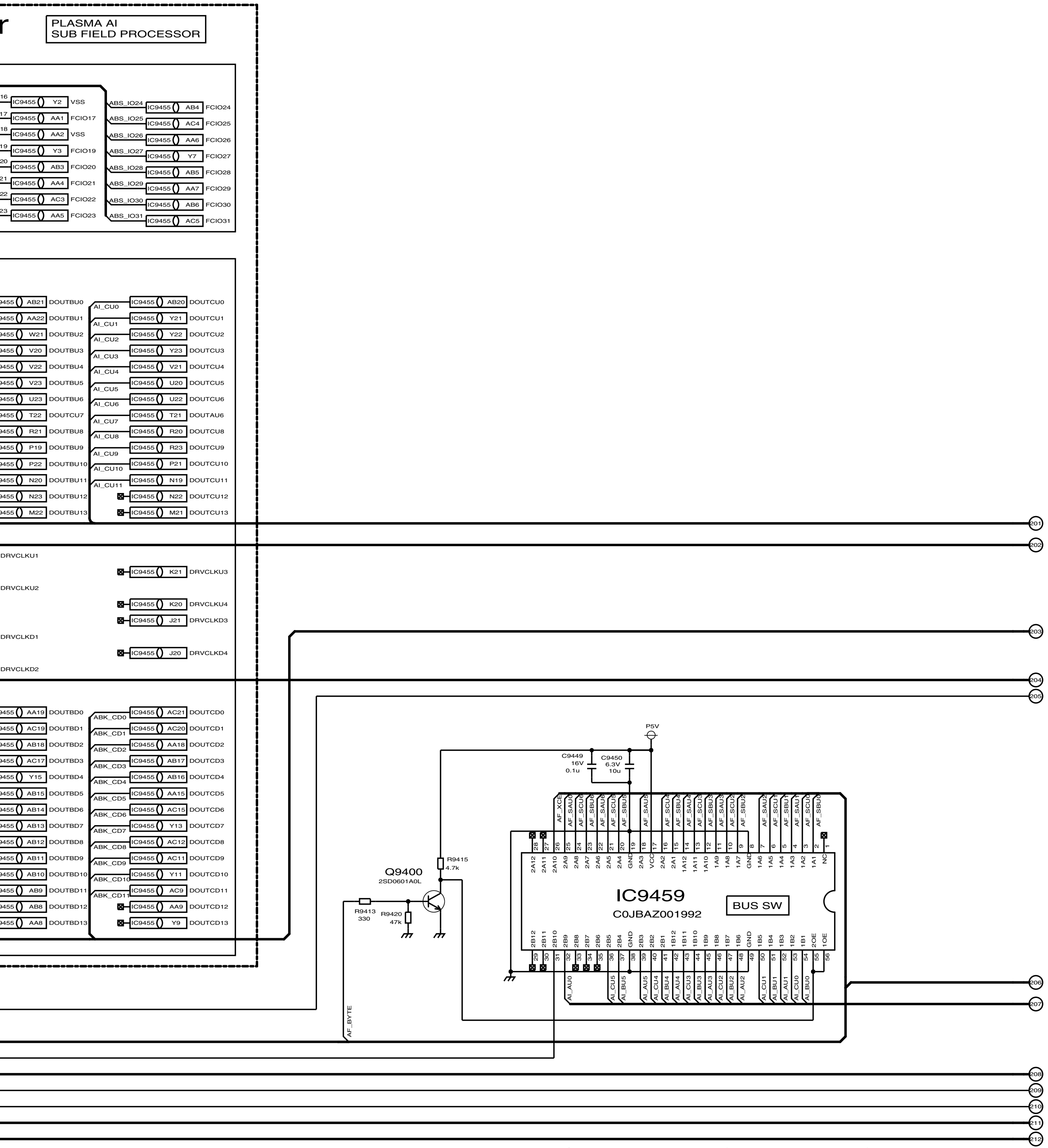

IC9454
C3ABPJ000043
64M SDRAM
MN84510-A
FPGA I/F
TEST
IIC
other
2.5V
1.25V
R9484 1k
R9485 1k
R9486 1k 1%
R9487 1k 1%
R9488 10
R9489 10
R9490 22
R9491 22
C9474 16V 4.7u
C9475 16V 0.1u
C9476 16V 0.1u
C9477 16V 0.1u
C9478 6.3V 10u
C9479 16V 0.1u
C9480 16V 0.1u
C9481 16V 0.1u
C9482 16V 0.1u
C9485 0.1u 16V
C9486 16V 0.1u
C9487 16V 0.1u
C9488 16V 0.1u
L9452 ELJFA1R0KF
ABA_LATCH
ABA_SFVRST
ABA_SFRST
ABA_FPCLK
ABA_FPDAT0
ABA_FPDAT1
AJ_SDA2
AJ_SCL2
LATCH
SFVRST
SFRST
AUP
FPCLK
FPDAT0
FPDAT1
PTESTDRAM0
PTESTDRAM1
NTDRAM
MINTEST
SCANE
TIOCTL0
TIOCTL1
TIOCTL2
TEST0
TEST1
TEST2
TEST3
TEST4
TEST5
TILD
SDA
SCL
ID0
ID1
TIIC
MCKSEL0
MCKSEL1
MCKSEL2
ACKSEL0
ACKSEL1
MUTE
TCPOUT
VDD25
VDD18
VDD18D
VDD33
VDD33D
FCIO8
FCIO4
AVDD
AVSS
VREF
VSS
181
182
183
184
185
186
187
188
189
190
191
192
193
194
57
58
59
60

TH-42PHD6/TH-42PHW6   D-BOARD (13 of 15) Schematic Diagram

14.37. D-Board (14 of 15) Schematic Diagram

⚠ D-BOARD TZTNP01QJSU (14/15)

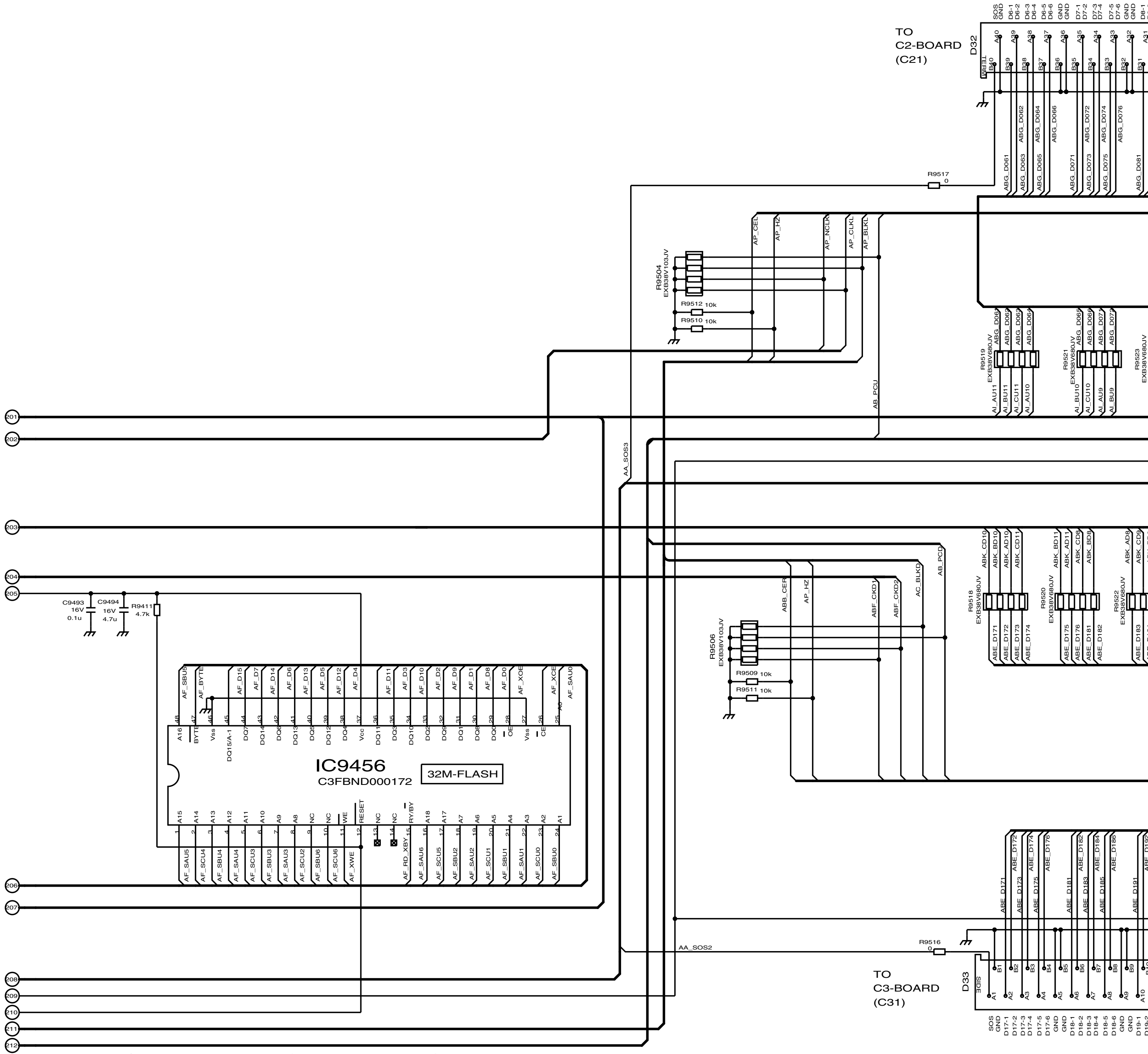

IC9455 MN84510-A L master
PLASMA AI
SUB FIELD
FC RAM I/F
to DATA Driver
Flash ROM I/F
130MHz CKOUT
C9489 16V 0.1u
C9491 16V 0.1u
C9490 16V 0.1u
C9492 16V 0.1u
R9496 56
R9498 56
R9501 56
R9503 56
DQS0
DQS1
DQS2
DQS3
CLK
NCLK
CS
RAS
CAS
WE
BA0
BA1
BA2
VDD18
VDD25
VDD33
VSS
DRVCLKU1
DRVCLKU2
DRVCLKD1
DRVCLKD2
181
182
183
184
185
186
187
188
189
190
191
192
193
194
TH-42PHD6/TH-42PHW6 D-BOARD (14 of 15) Schematic Diagram
61
62
63
64


PLASMA AI
SUB FIELD PROCESSOR
IC9459
C0JBAZ001992
BUS SW
Q9400
2SD0601A0L
R9415
4.7k
R9413
330
R9420
47k
C9449
16V
0.1u
C9450
6.3V
10u
P5V
AF_BYTE
201
202
203
204
205
206
207
208
209
210
211
212

TH-42PHD6/TH-42PHW6 D-BOARD (14 of 15) Schematic Diagram

14.38. D-Board (15 of 15) Schematic Diagram

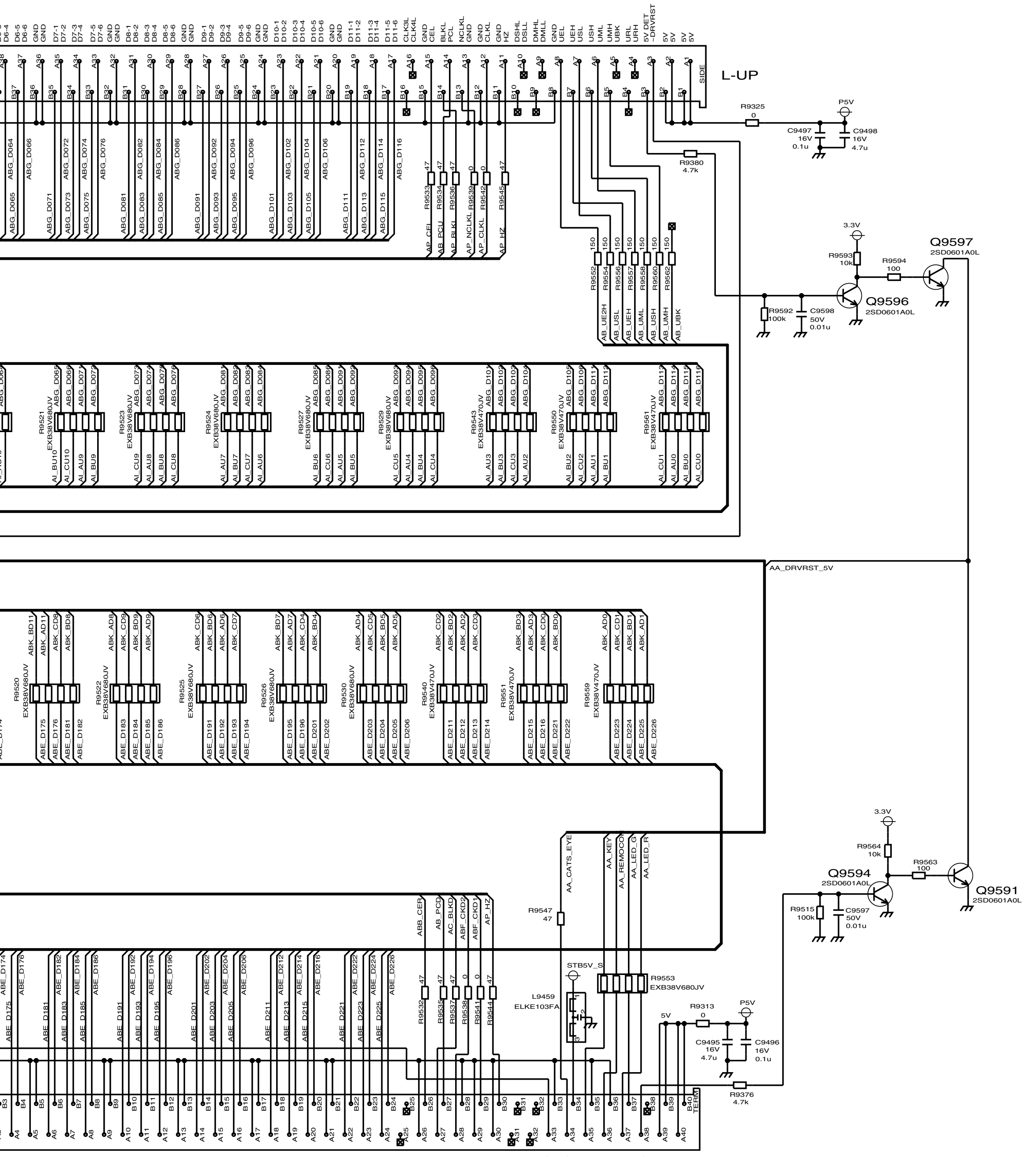
D-BOARD TZTNP01QJSU (15/15)



TO
C2-BOARD
(C21)
D32
TO
C3-BOARD
(C31)
D33
IC9456
C3FBND000172
32M-FLASH
R9504
EXB38V103JV
R9506
EXB38V103JV
R9512 10k
R9510 10k
R9509 10k
R9511 10k
R9517
0
R9516
0
R9518
EXB38V680JV
R9519
EXB38V680JV
R9520
EXB38V680JV
R9521
EXB38V680JV
R9522
EXB38V680JV
R9523
EXB38V680JV
C9493
16V
0.1u
C9494
16V
4.7u
R9411
4.7k
AP_CEL
AP_HZ
AP_NCLK
AP_CLKL
AP_BLKL
AB_PCU
AB_PCD
AA_SOS3
AA_SOS2
ABB_CER
AP_HZ
ABF_CKD1
ABF_CKD2
AC_BLKD
AI_AU11
AI_BU11
AI_CU11
AI_AU10
AI_BU10
AI_CU10
AI_AU9
AI_BU9
ABG_D061
ABG_D062
ABG_D063
ABG_D064
ABG_D065
ABG_D066
ABG_D071
ABG_D072
ABG_D073
ABG_D074
ABG_D075
ABG_D076
ABG_D081
ABK_CD19
ABK_BD19
ABK_AD19
ABK_CD11
ABK_BD11
ABK_AD11
ABK_CD8
ABK_BD8
ABK_AD8
ABE_D171
ABE_D172
ABE_D173
ABE_D174
ABE_D175
ABE_D176
ABE_D181
ABE_D182
ABE_D183
ABE_D184
ABE_D185
ABE_D186
ABE_D191
AF_SBU5
AF_BYTE
AF_D15
AF_D7
AF_D14
AF_D6
AF_D13
AF_D5
AF_D12
AF_D4
AF_D11
AF_D3
AF_D10
AF_D2
AF_D9
AF_D1
AF_D8
AF_D0
AF_XOE
AF_XCE
AF_SAU0
AF_SAU5
AF_SCU4
AF_SBU4
AF_SAU4
AF_SCU3
AF_SBU3
AF_SAU3
AF_SCU2
AF_SBU6
AF_SCU6
AF_XWE
AF_RD_XBY
AF_SAU6
AF_SCU5
AF_SBU2
AF_SAU2
AF_SCU1
AF_SBU1
AF_SAU1
AF_SCU0
AF_SBU0
A16
BYTE
Vss
DQ15/A-1
DQ7
DQ14
DQ6
DQ13
DQ5
DQ12
DQ4
Vcc
DQ11
DQ3
DQ10
DQ2
DQ9
DQ1
DQ8
DQ0
OE
Vss
CE
A0
A15
A14
A13
A12
A11
A10
A9
A8
NC
NC
WE
RESET
NC
NC
RY/BY
A18
A17
A7
A6
A5
A4
A3
A2
A1
SOS
GND
D6-1
D6-2
D6-3
D6-4
D6-5
D6-6
D7-1
D7-2
D7-3
D7-4
D7-5
D7-6
D8-1
D17-1
D17-2
D17-3
D17-4
D17-5
D17-6
D18-1
D18-2
D18-3
D18-4
D18-5
D18-6
D19-1
TERM
SIDE
201
202
203
204
205
206
207
208
209
210
211
212

TH-42PHD6/TH-42PHW6 D-BOARD (15 of 15) Schematic Diagram

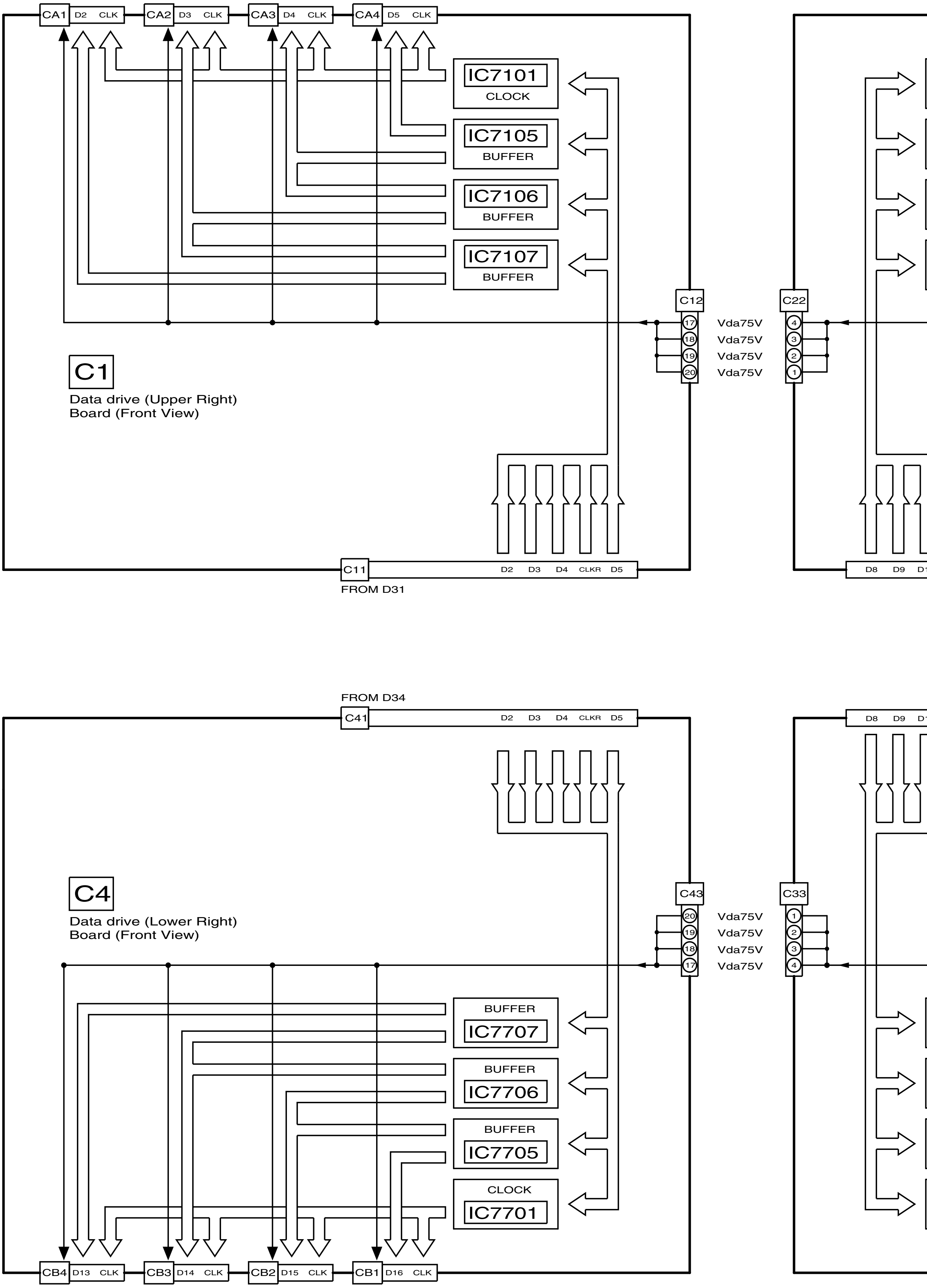
68 69 70 71 72


L-UP
SIDE
R9325
0
P5V
C9497
16V
0.1u
C9498
16V
4.7u
R9380
4.7k
3.3V
R9593
10k
R9594
100
Q9597
2SD0601A0L
Q9596
2SD0601A0L
R9592
100k
C9598
50V
0.01u
AA_DRVRST_5V
R9521
EXB38V680JV
R9523
R9524
R9527
R9529
R9543
EXB38V470JV
R9550
R9561
R9520
R9522
R9525
R9526
R9530
R9540
R9551
R9559
3.3V
R9564
10k
R9563
100
Q9594
2SD0601A0L
Q9591
2SD0601A0L
R9515
100k
C9597
50V
0.01u
R9547
47
AA_CATS_EYE
AA_KEY
AA_REMOCON
AA_LED_G
AA_LED_R
STB5V_S
L9459
ELKE103FA
R9553
EXB38V680JV
R9313
0
5V
P5V
C9495
16V
4.7u
C9496
16V
0.1u
R9376
4.7k

TH-42PHD6/TH-42PHW6
D-BOARD (15 of 15) Schematic Diagram

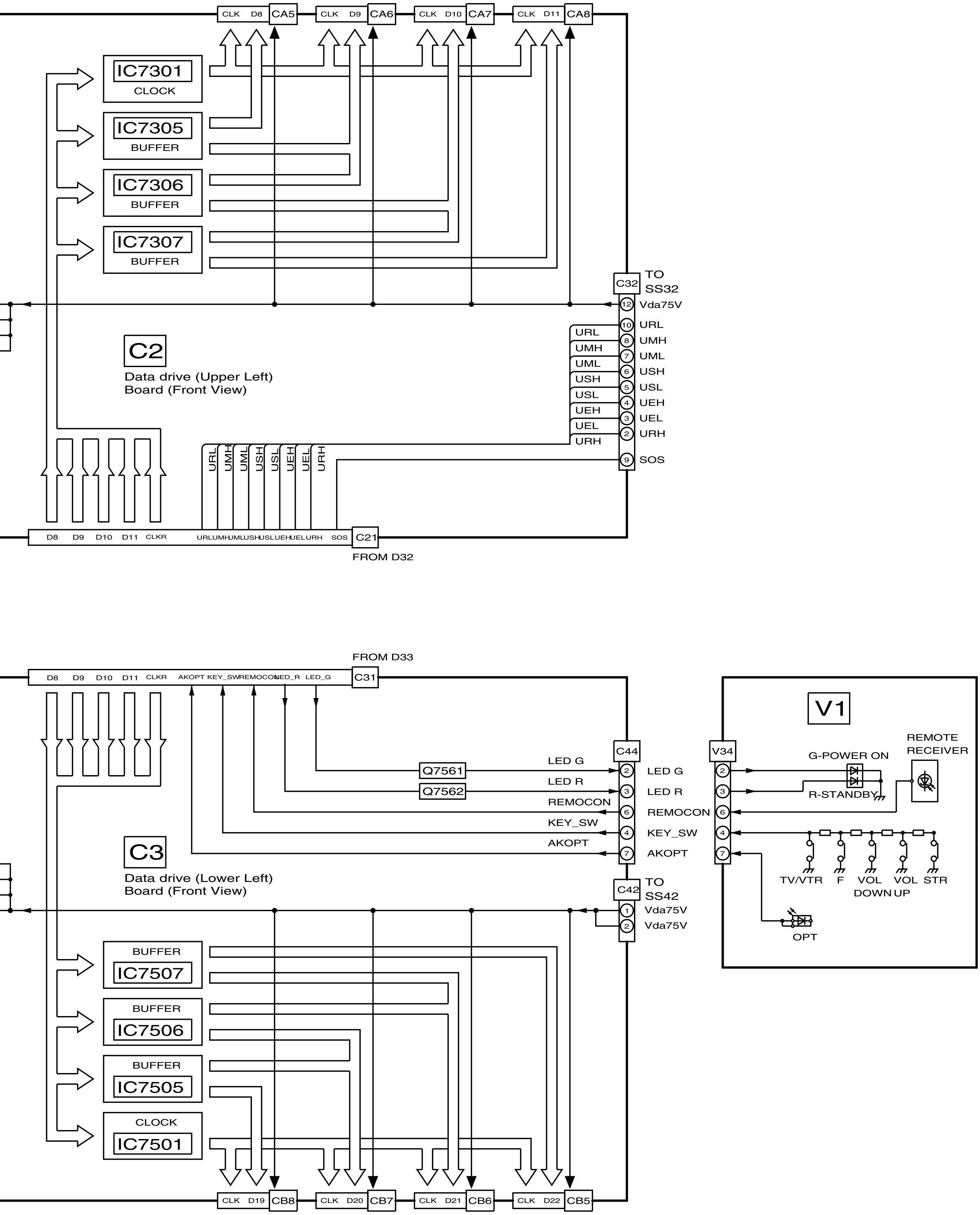
72
73
74
75

14.39. C1-Board, C2-Board, C3-Board, C4-Board and V1-Board Block Diagram


CA1
D2
CLK
CA2
D3
CLK
CA3
D4
CLK
CA4
D5
CLK
IC7101
CLOCK
IC7105
BUFFER
IC7106
BUFFER
IC7107
BUFFER
C12
C22
17
18
19
20
Vda75V
Vda75V
Vda75V
Vda75V
4
3
2
1
C1
Data drive (Upper Right)
Board (Front View)
C11
D2
D3
D4
CLKR
D5
FROM D31
D8
D9
FROM D34
C41
D2
D3
D4
CLKR
D5
D8
D9
C4
Data drive (Lower Right)
Board (Front View)
C43
C33
20
19
18
17
Vda75V
Vda75V
Vda75V
Vda75V
1
2
3
4
BUFFER
IC7707
BUFFER
IC7706
BUFFER
IC7705
CLOCK
IC7701
CB4
D13
CLK
CB3
D14
CLK
CB2
D15
CLK
CB1
D16
CLK

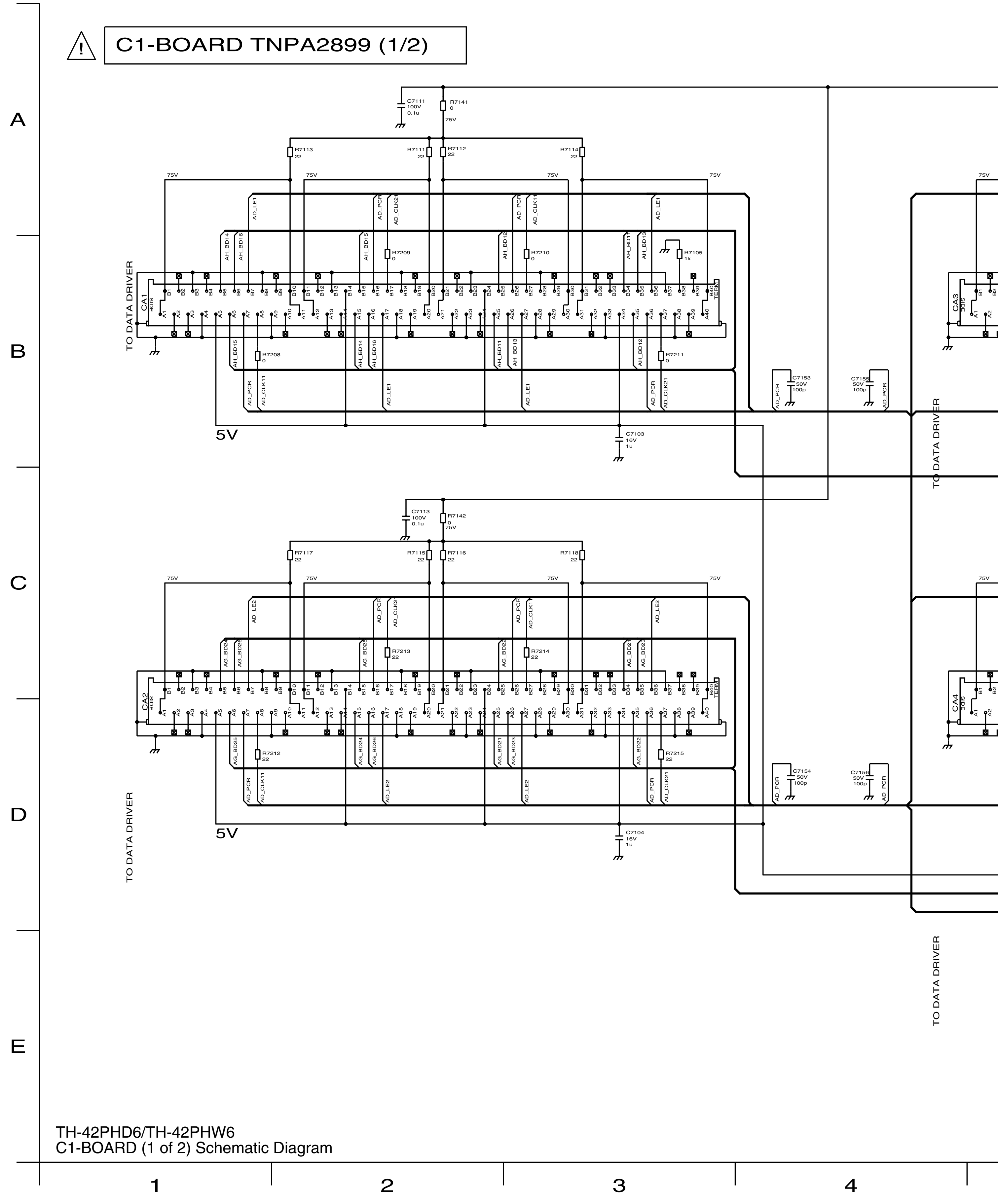
TH-42PHD6/TH-42PHW6
C1-BOARD, C2-BOARD, C3-BOARD, C4-BOARD and V1-BOARD Block Diagram

gram

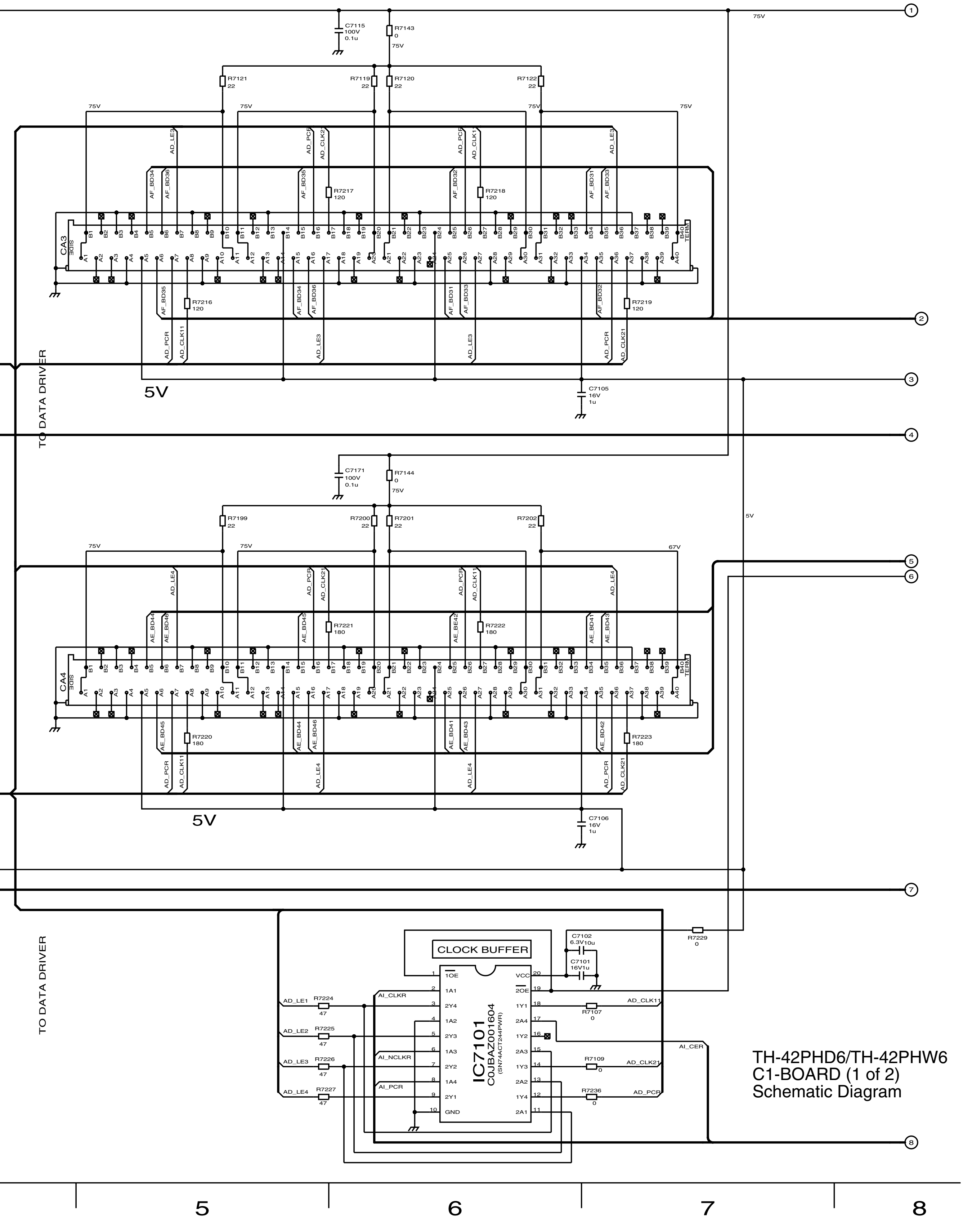

CLK D8 CA5
CLK D9 CA6
CLK D10 CA7
CLK D11 CA8
IC7301
CLOCK
IC7305
BUFFER
IC7306
BUFFER
IC7307
BUFFER
C32
TO SS32
12 Vda75V
10 URL
8 UMH
7 UML
6 USH
5 USL
4 UEH
3 UEL
2 URH
9 SOS
URL
UMH
UML
USH
USL
UEH
UEL
URH
C2
Data drive (Upper Left) Board (Front View)
D8 D9 D10 D11 CLKR
URLUMHUMLUSHUSLUEHUELURH SOS C21
FROM D32
FROM D33
D8 D9 D10 D11 CLKR AKOPT KEY_SWREMOCONLED_R LED_G C31
C44
Q7561
Q7562
LED G
LED R
REMOCON
KEY_SW
AKOPT
2 LED G
3 LED R
6 REMOCON
4 KEY_SW
7 AKOPT
C3
Data drive (Lower Left) Board (Front View)
C42
TO SS42
1 Vda75V
2 Vda75V
V34
V1
G-POWER ON
R-STANDBY
REMOTE RECEIVER
TV/VTR
F
VOL DOWN
VOL UP
STR
OPT
BUFFER
IC7507
BUFFER
IC7506
BUFFER
IC7505
CLOCK
IC7501
CLK D19 CB8
CLK D20 CB7
CLK D21 CB6
CLK D22 CB5

TH-42PHD6/TH-42PHW6
C1-BOARD, C2-BOARD, C3-BOARD, C4-BOARD and V1-BOARD Block Diagram

14.40. C1-Board (1 of 2) Schematic Diagram


C1-BOARD TNPA2899 (1/2)
A
B
C
D
E
1
2
3
4
C7111 100V 0.1u
R7141 0
75V
R7113 22
R7111 22
R7112 22
R7114 22
AD_LE1
AD_PCR
AD_CLK21
AD_CLK11
AH_BD14
AH_BD16
AH_BD15
AH_BD12
AH_BD11
AH_BD13
R7209 0
R7210 0
R7105 1k
R7208 0
R7211 0
CA1
CA2
CA3
CA4
SIDE
TERM
TO DATA DRIVER
5V
C7103 16V 1u
C7153 50V 100p
C7155 50V 100p
C7113 100V 0.1u
R7142 0
R7117 22
R7115 22
R7116 22
R7118 22
AD_LE2
AG_BD24
AG_BD26
AG_BD25
AG_BD22
AG_BD21
AG_BD23
R7213 22
R7214 22
R7212 22
R7215 22
C7104 16V 1u
C7154 50V 100p
C7156 50V 100p

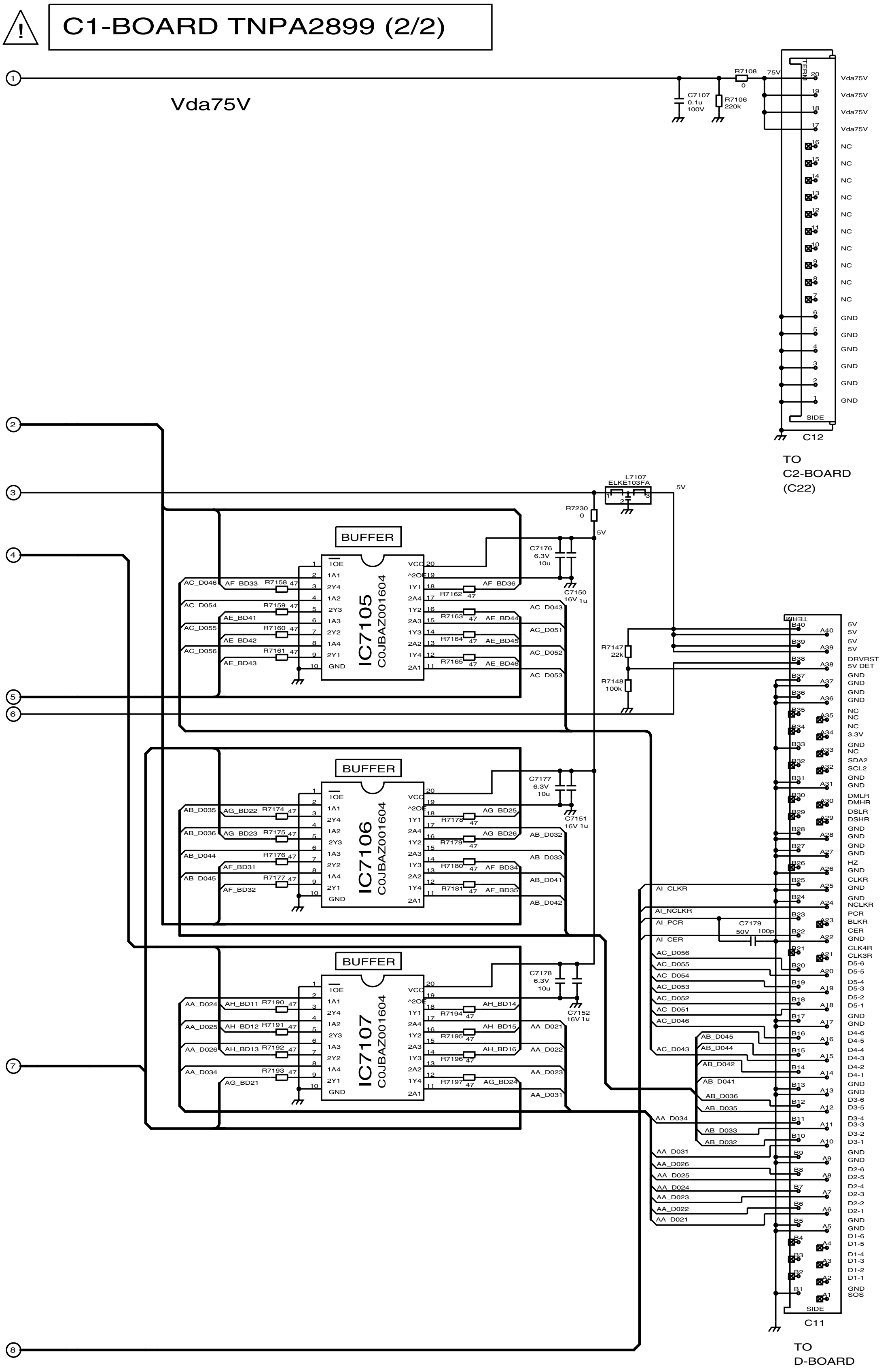
TH-42PHD6/TH-42PHW6
C1-BOARD (1 of 2) Schematic Diagram



75V
C7115
100V
0.1u
R7143
0
R7121
22
R7119
22
R7120
22
R7122
22
AD_LE3
AD_PCR
AD_CLK2
AD_CLK1
AF_BD34
AF_BD36
AF_BD35
AF_BD32
AF_BD31
AF_BD33
R7217
120
R7218
120
R7216
120
R7219
120
CA3
SIDE
TERM
AD_CLK11
AD_CLK21
C7105
16V
1u
5V
TO DATA DRIVER
C7171
100V
0.1u
R7144
0
R7199
22
R7200
22
R7201
22
R7202
22
67V
AD_LE4
AD_CLK21
AD_CLK11
AE_BD44
AE_BD46
AE_BD45
AE_BE42
AE_BD41
AE_BD43
AE_BD42
R7221
180
R7222
180
R7220
180
R7223
180
CA4
C7106
16V
1u
5V
TO DATA DRIVER
CLOCK BUFFER
IC7101
C0JBAZ001604
(SN74ACT244PWR)
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
C7102
6.3V10u
C7101
16V1u
R7229
0
AD_LE1
AD_LE2
AD_LE3
AD_LE4
R7224
47
R7225
47
R7226
47
R7227
47
AI_CLKR
AI_NCLKR
AI_PCR
AI_CER
R7107
0
R7109
0
R7236
0
AD_CLK11
AD_CLK21
AD_PCR
①
②
③
④
⑤
⑥
⑦
⑧
5
6
7
8

TH-42PHD6/TH-42PHW6
C1-BOARD (1 of 2)
Schematic Diagram

14.41. C1-Board (2 of 2) Schematic Diagram

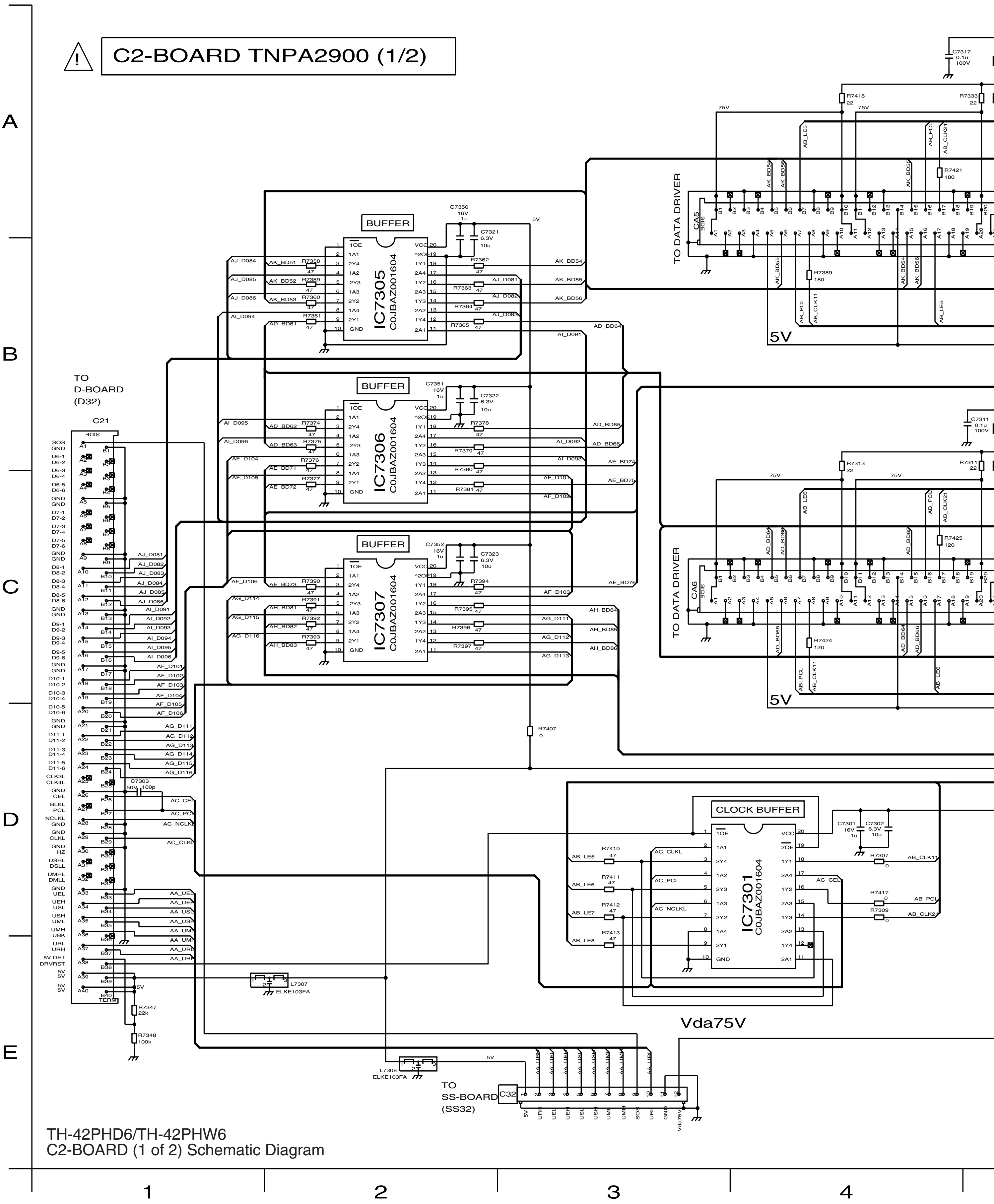

C1-BOARD TNPA2899 (2/2)
①
②
③
④
⑤
⑥
⑦
⑧
Vda75V
R7108
0
75V
C7107
0.1u
100V
R7106
220k
TERM
Vda75V
Vda75V
Vda75V
Vda75V
NC
GND
SIDE
C12
TO
C2-BOARD
(C22)
L7107
ELKE103FA
5V
R7230
0
5V
BUFFER
C7176
6.3V
10u
C7150
16V 1u
IC7105
C0JBAZ001604
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
^2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
AC_D046
AF_BD33
R7158
47
AC_D054
R7159
AE_BD41
AC_D055
R7160
AE_BD42
AC_D056
R7161
AE_BD43
AF_BD36
R7162
R7163
AE_BD44
R7164
AE_BD45
R7165
AE_BD46
AC_D043
AC_D051
AC_D052
AC_D053
R7147
22k
R7148
100k
BUFFER
C7177
6.3V
10u
C7151
16V 1u
IC7106
C0JBAZ001604
AB_D035
AG_BD22
R7174
AB_D036
AG_BD23
R7175
AB_D044
R7176
AF_BD31
AB_D045
R7177
AF_BD32
AG_BD25
R7178
AG_BD26
R7179
R7180
AF_BD34
R7181
AF_BD35
AB_D032
AB_D033
AB_D041
AB_D042
BUFFER
C7178
6.3V
10u
C7152
16V 1u
IC7107
C0JBAZ001604
AA_D024
AH_BD11
R7190
AA_D025
AH_BD12
R7191
AA_D026
AH_BD13
R7192
AA_D034
R7193
AG_BD21
AH_BD14
R7194
AH_BD15
R7195
AH_BD16
R7196
R7197
AG_BD24
AA_D021
AA_D022
AA_D023
AA_D031
AI_CLKR
AI_NCLKR
AI_PCR
C7179
50V 100p
AI_CER
AC_D056
AC_D055
AC_D054
AC_D053
AC_D052
AC_D051
AC_D046
AC_D043
AB_D045
AB_D044
AB_D042
AB_D041
AB_D036
AB_D035
AA_D034
AB_D033
AB_D032
AA_D031
AA_D026
AA_D025
AA_D024
AA_D023
AA_D022
AA_D021
TERM
5V
5V
5V
5V
DRVRST
5V DET
GND
GND
GND
GND
NC
NC
NC
3.3V
GND
NC
SDA2
SCL2
GND
GND
DMLR
DMHR
DSLR
DSHR
GND
GND
GND
GND
HZ
GND
CLKR
GND
GND
NCLKR
PCR
BLKR
CER
GND
CLK4R
CLK3R
D5-6
D5-5
D5-4
D5-3
D5-2
D5-1
GND
GND
D4-6
D4-5
D4-4
D4-3
D4-2
D4-1
GND
GND
D3-6
D3-5
D3-4
D3-3
D3-2
D3-1
GND
GND
D2-6
D2-5
D2-4
D2-3
D2-2
D2-1
GND
GND
D1-6
D1-5
D1-4
D1-3
D1-2
D1-1
GND
SOS
SIDE
C11
TO
D-BOARD
(D31)
8
9
10
11
12

TH-42PHD6/TH-42PHW6 C1-BOARD (2 of 2) Schematic Diagram

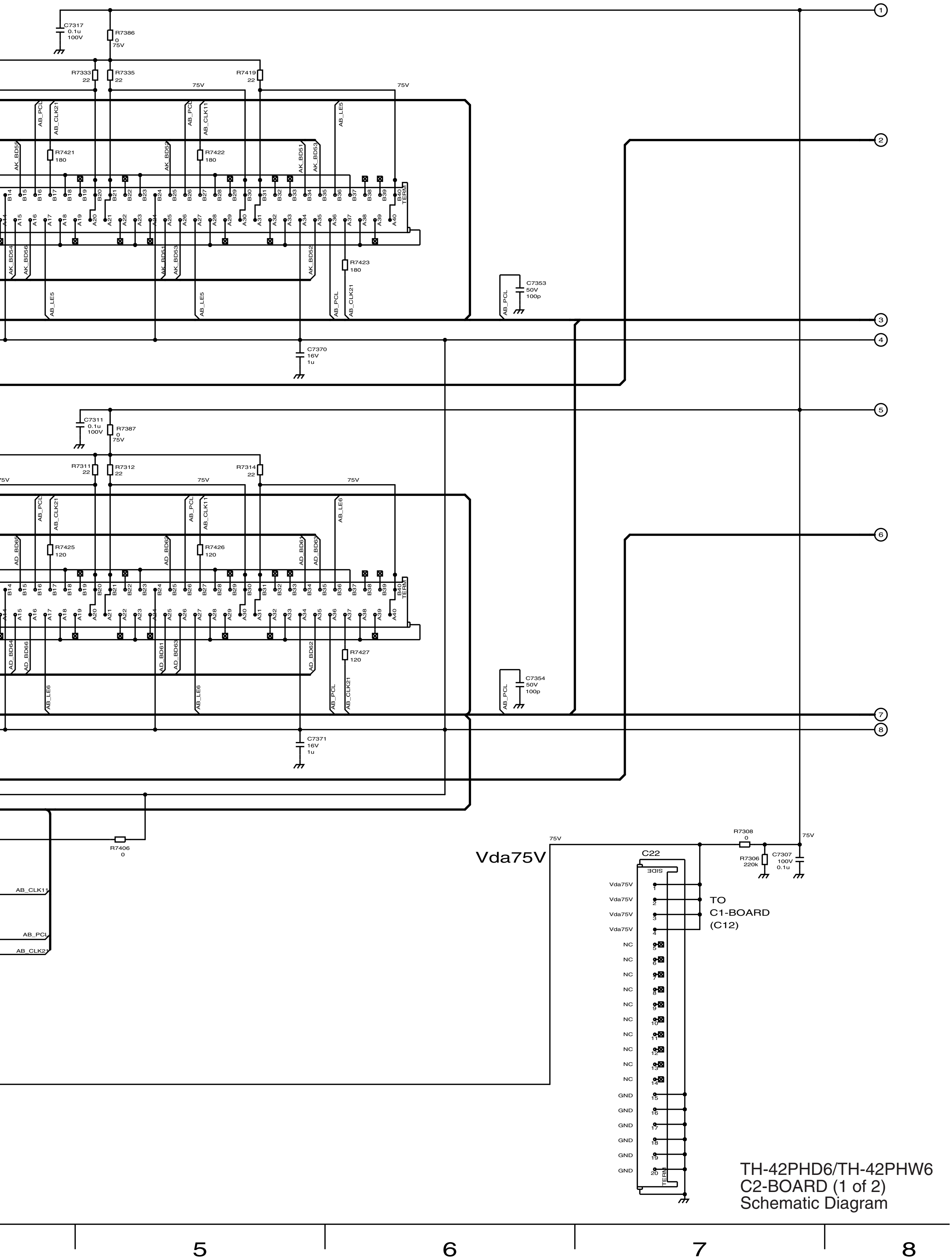
TH-42PHD6/TH-42PHW6
C1-BOARD (2 of 2) Schematic Diagram

12 13 14 15

14.42. C2-Board (1 of 2) Schematic Diagram

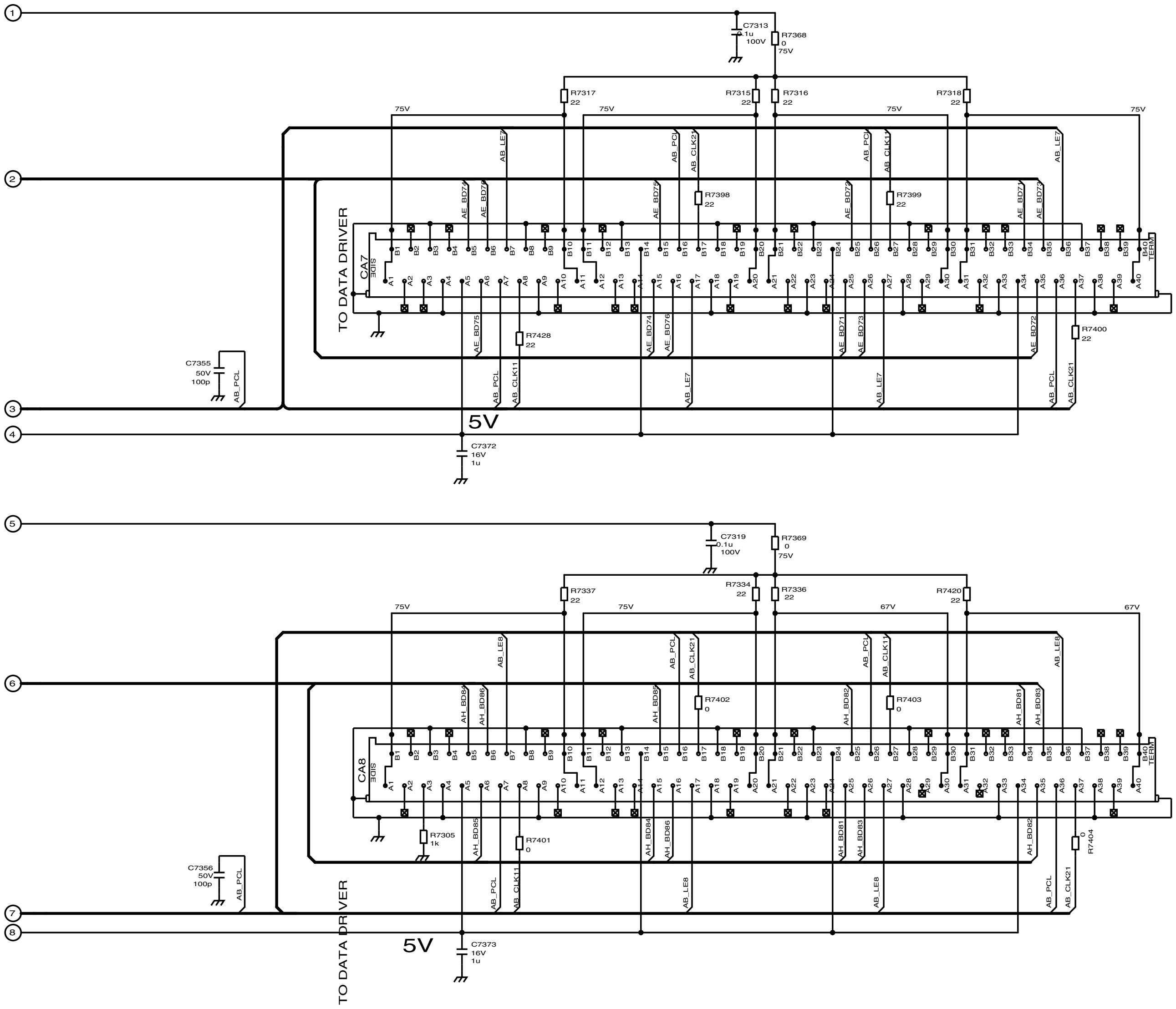

C2-BOARD TNPA2900 (1/2)
A
B
C
D
E
1
2
3
4
TO
D-BOARD
(D32)
C21
BUFFER
IC7305
C0JBAZ001604
BUFFER
IC7306
C0JBAZ001604
BUFFER
IC7307
C0JBAZ001604
CLOCK BUFFER
IC7301
C0JBAZ001604
C7350
16V
1u
C7321
6.3V
10u
C7351
16V
1u
C7322
6.3V
10u
C7352
16V
1u
C7323
6.3V
10u
C7301
16V
1u
C7302
6.3V
10u
C7303
50V
100p
C7317
0.1u
100V
C7311
0.1u
100V
5V
TO DATA DRIVER
CA5
TO DATA DRIVER
CA6
5V
5V
R7418
22
R7333
22
R7421
180
R7389
180
R7313
22
R7311
22
R7425
120
R7424
120
R7407
0
R7347
22k
R7348
100k
L7307
ELKE103FA
L7308
ELKE103FA
Vda75V
TO
SS-BOARD
(SS32)
C32
5V
URH
UEL
UEH
USL
USH
UML
UMH
SOS
URL
GND
Vda75V

TH-42PHD6/TH-42PHW6
C2-BOARD (1 of 2) Schematic Diagram


C7317
0.1u
100V
R7386
0
75V
R7333
22
R7335
22
R7419
22
75V
AB_PCL
AB_CLK21
AB_CLK11
AB_LE5
AK_BD55
AK_BD52
AK_BD51
AK_BD53
AK_BD54
AK_BD56
AK_BD61
AK_BD53
AK_BD62
R7421
180
R7422
180
R7423
180
TERM
C7353
50V
100p
C7370
16V
1u
C7311
0.1u
100V
R7387
0
75V
R7311
22
R7312
22
R7314
22
AB_LE6
AD_BD65
AD_BD62
AD_BD61
AD_BD63
AD_BD64
AD_BD66
R7425
120
R7426
120
R7427
120
C7354
50V
100p
C7371
16V
1u
R7406
0
AB_CLK11
AB_PCL
AB_CLK21
Vda75V
R7308
0
R7306
220k
C7307
100V
0.1u
C22
SIDE
Vda75V
NC
GND
TO
C1-BOARD
(C12)
①
②
③
④
⑤
⑥
⑦
⑧
5
6
7
8

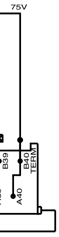
TH-42PHD6/TH-42PHW6
C2-BOARD (1 of 2)
Schematic Diagram

14.43. C2-Board (2 of 2) Schematic Diagram



1
2
3
4
5
6
7
8
C7313
0.1u
100V
R7368
0
75V
R7317
22
R7315
22
R7316
22
R7318
22
75V
AB_LE7
AB_PCL
AB_CLK21
AB_CLK11
AE_BD77
AE_BD78
AE_BD75
AE_BD74
AE_BD76
AE_BD71
AE_BD73
AE_BD72
R7398
22
R7399
22
R7428
22
R7400
22
TO DATA DRIVER
CA7
30IS
TERM
C7355
50V
100p
5V
C7372
16V
1u
C7319
0.1u
100V
R7369
0
75V
R7337
22
R7334
22
R7336
22
R7420
22
67V
AB_LE8
AH_BD84
AH_BD86
AH_BD85
AH_BD82
AH_BD81
AH_BD83
R7402
0
R7403
0
R7305
1k
R7401
0
R7404
0
CA8
30IS
C7356
50V
100p
C7373
16V
1u

C2-BOARD TNPA2900 (2/2)

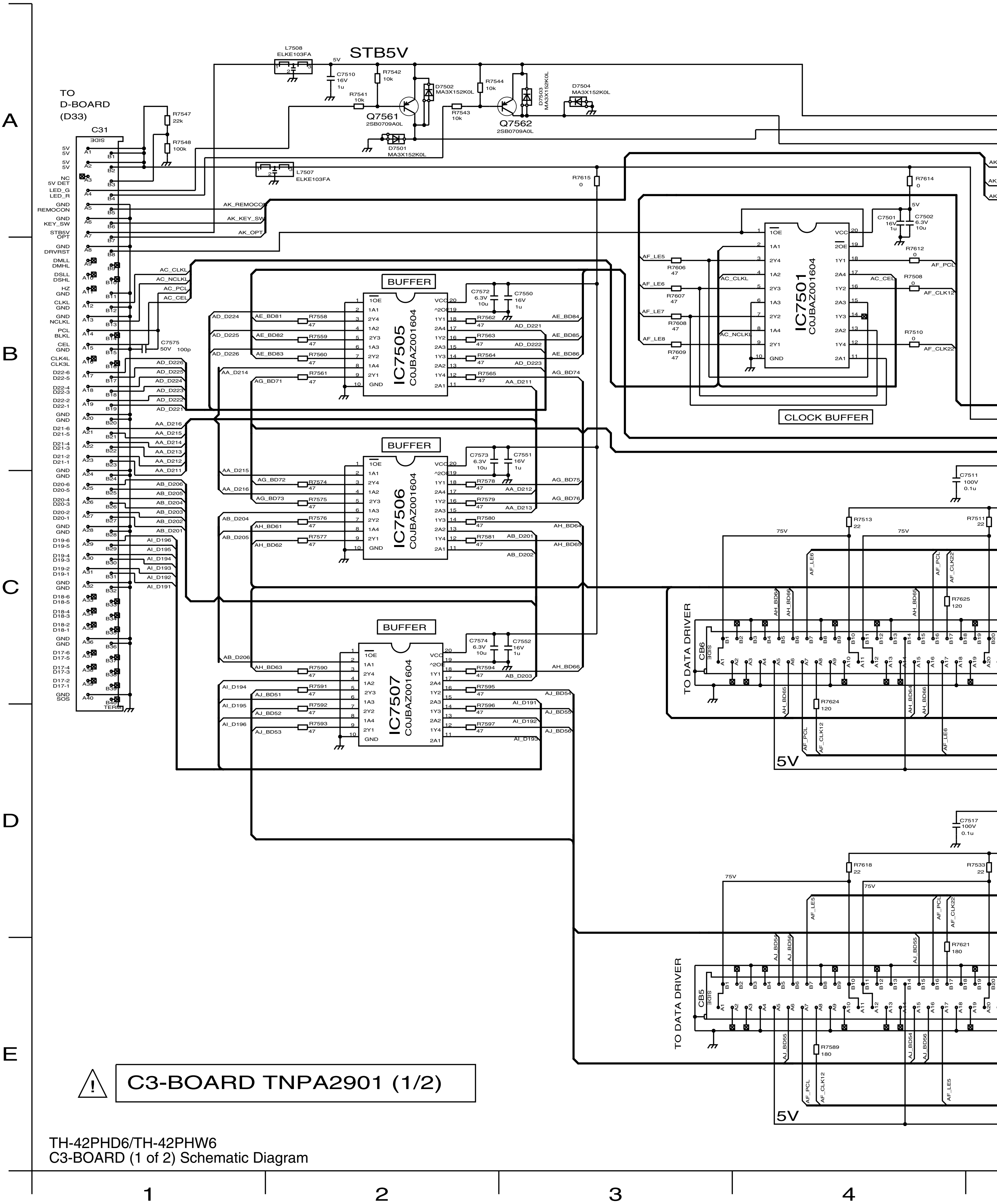

75V
B39
B40
TERM
A40

67V
B39
B40
TERM
A40

TH-42PHD6/TH-42PHW6
C2-BOARD (2 of 2) Schematic Diagram

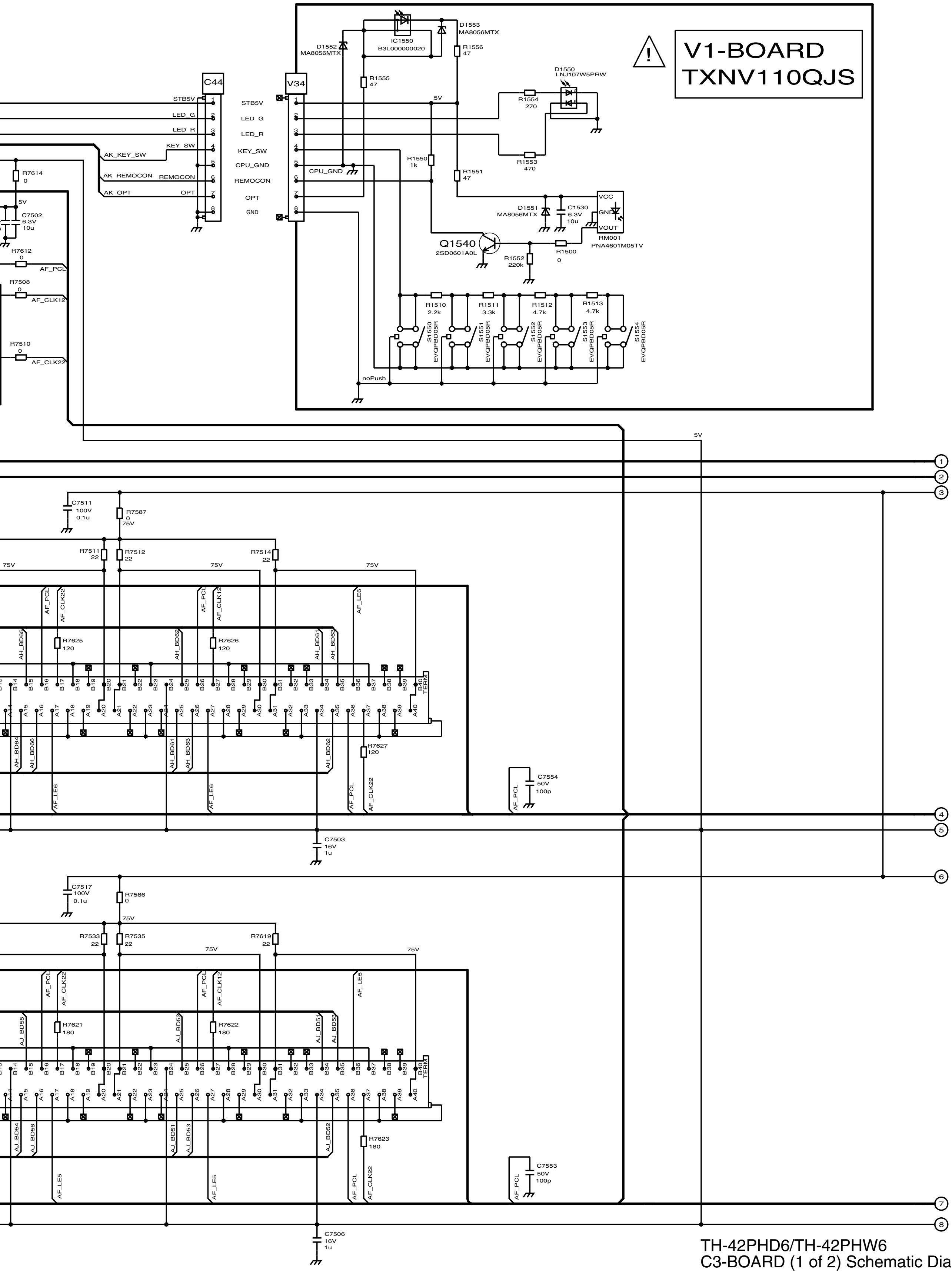
12 13 14 15

14.44. C3-Board (1 of 2) Schematic Diagram


STB5V
L7508
ELKE103FA
5V
C7510
16V
1u
R7542
10k
R7541
10k
D7502
MA3X152K0L
Q7561
2SB0709A0L
D7501
MA3X152K0L
R7544
10k
R7543
10k
Q7562
2SB0709A0L
D7503
MA3X152K0L
D7504
MA3X152K0L
TO
D-BOARD
(D33)
C31
R7547
22k
R7548
100k
L7507
ELKE103FA
R7615
0
R7614
0
AK_REMOCON
AK_KEY_SW
AK_OPT
5V
5V
NC
5V DET
LED_G
LED_R
GND
REMOCON
GND
KEY_SW
STB5V
OPT
GND
DRVRST
DMLL
DMHL
DSLL
DSHL
HZ
GND
CLKL
GND
GND
NCLKL
PCL
BLKL
CEL
GND
CLK4L
CLK3L
TERM
AC_CLKL
AC_NCLKL
AC_PCL
AC_CEL
C7575
50V
100p
BUFFER
IC7505
C0JBAZ001604
C7572
6.3V
10u
C7550
16V
1u
BUFFER
IC7506
C0JBAZ001604
C7573
6.3V
10u
C7551
16V
1u
BUFFER
IC7507
C0JBAZ001604
C7574
6.3V
10u
C7552
16V
1u
IC7501
C0JBAZ001604
C7501
16V
1u
C7502
6.3V
10u
R7606
47
R7607
47
R7608
47
R7609
47
R7612
0
R7508
0
R7510
0
AF_LE5
AF_LE6
AF_LE7
AF_LE8
AF_PCL
AF_CLK12
AF_CLK22
CLOCK BUFFER
C7511
100V
0.1u
R7513
22
R7511
22
75V
R7625
120
R7624
120
TO DATA DRIVER
CB6
5V
C7517
100V
0.1u
R7618
22
R7533
22
R7621
180
R7589
180
TO DATA DRIVER
CB5
5V
A
B
C
D
E
1
2
3
4

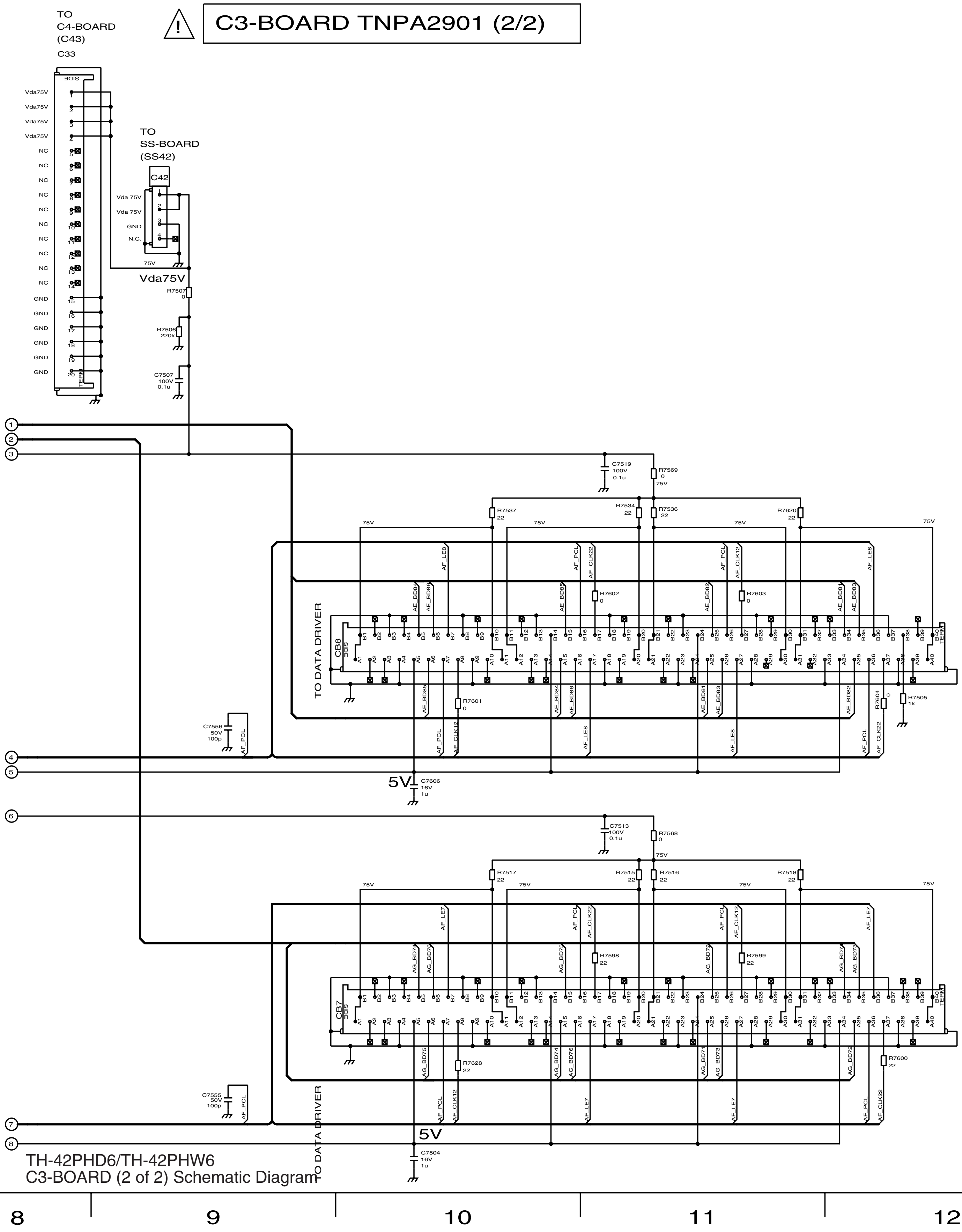
C3-BOARD TNPA2901 (1/2)

TH-42PHD6/TH-42PHW6
C3-BOARD (1 of 2) Schematic Diagram

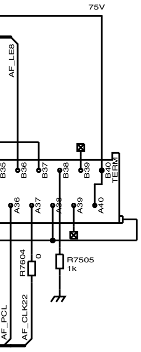

V1-BOARD
TXNV110QJS
C44
V34
STB5V
LED_G
LED_R
KEY_SW
CPU_GND
REMOCON
OPT
GND
AK_KEY_SW
AK_REMOCON
AK_OPT
IC1550
B3L000000020
D1552
MA8056MTX
D1553
MA8056MTX
D1550
LNJ107W5PRW
R1556 47
R1555 47
R1554 270
R1553 470
R1550 1k
R1551 47
D1551
MA8056MTX
C1530 6.3V 10u
RM001
PNA4601M05TV
VCC
GND
VOUT
Q1540
2SD0601A0L
R1552 220k
R1500 0
R1510 2.2k
R1511 3.3k
R1512 4.7k
R1513 4.7k
S1550 EVQPBD05R
S1551 EVQPBD05R
S1552 EVQPBD05R
S1553 EVQPBD05R
S1554 EVQPBD05R
noPush
5V
R7614 0
C7502 6.3V 10u
R7612 0
AF_PCL
R7508 0
AF_CLK12
R7510 0
AF_CLK22
C7511 100V 0.1u
R7587 0
75V
R7511 22
R7512 22
R7514 22
R7625 120
R7626 120
R7627 120
AH_BD61
AH_BD62
AH_BD63
AH_BD64
AH_BD66
AF_LE6
C7554 50V 100p
C7503 16V 1u
C7517 100V 0.1u
R7586 0
R7533 22
R7535 22
R7619 22
R7621 180
R7622 180
R7623 180
AJ_BD51
AJ_BD52
AJ_BD53
AJ_BD54
AJ_BD55
AJ_BD56
AF_LE5
C7553 50V 100p
C7506 16V 1u
TERM
①
②
③
④
⑤
⑥
⑦
⑧
5
6
7
8

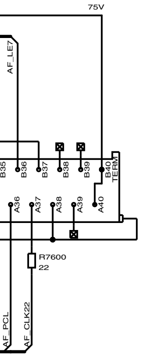
TH-42PHD6/TH-42PHW6
C3-BOARD (1 of 2) Schematic Diagram

14.45. C3-Board (2 of 2) Schematic Diagram


C3-BOARD TNPA2901 (2/2)
TO C4-BOARD (C43)
C33
Vda75V
NC
GND
TERM
TO SS-BOARD (SS42)
C42
Vda 75V
Vda 75V
GND
N.C.
75V
Vda75V
R7507 0
R7506 220k
C7507 100V 0.1u
C7519 100V 0.1u
R7569 0
R7537 22
R7534 22
R7536 22
R7620 22
AF_LE8
AF_PCL
AF_CLK22
AF_CLK12
AE_BD88
AE_BD86
AE_BD85
AE_BD84
AE_BD83
AE_BD82
AE_BD81
R7602 0
R7603 0
R7601 0
R7604 0
R7505 1k
TO DATA DRIVER
CB8
C7556 50V 100p
5V
C7606 16V 1u
C7513 100V 0.1u
R7568 0
R7517 22
R7515 22
R7516 22
R7518 22
AF_LE7
AG_BD77
AG_BD76
AG_BD75
AG_BD74
AG_BD73
AG_BD72
AG_BD71
R7598 22
R7599 22
R7628 22
R7600 22
CB7
C7555 50V 100p
C7504 16V 1u
1
2
3
4
5
6
7
8
8
9
10
11
12

TH-42PHD6/TH-42PHW6
C3-BOARD (2 of 2) Schematic Diagram

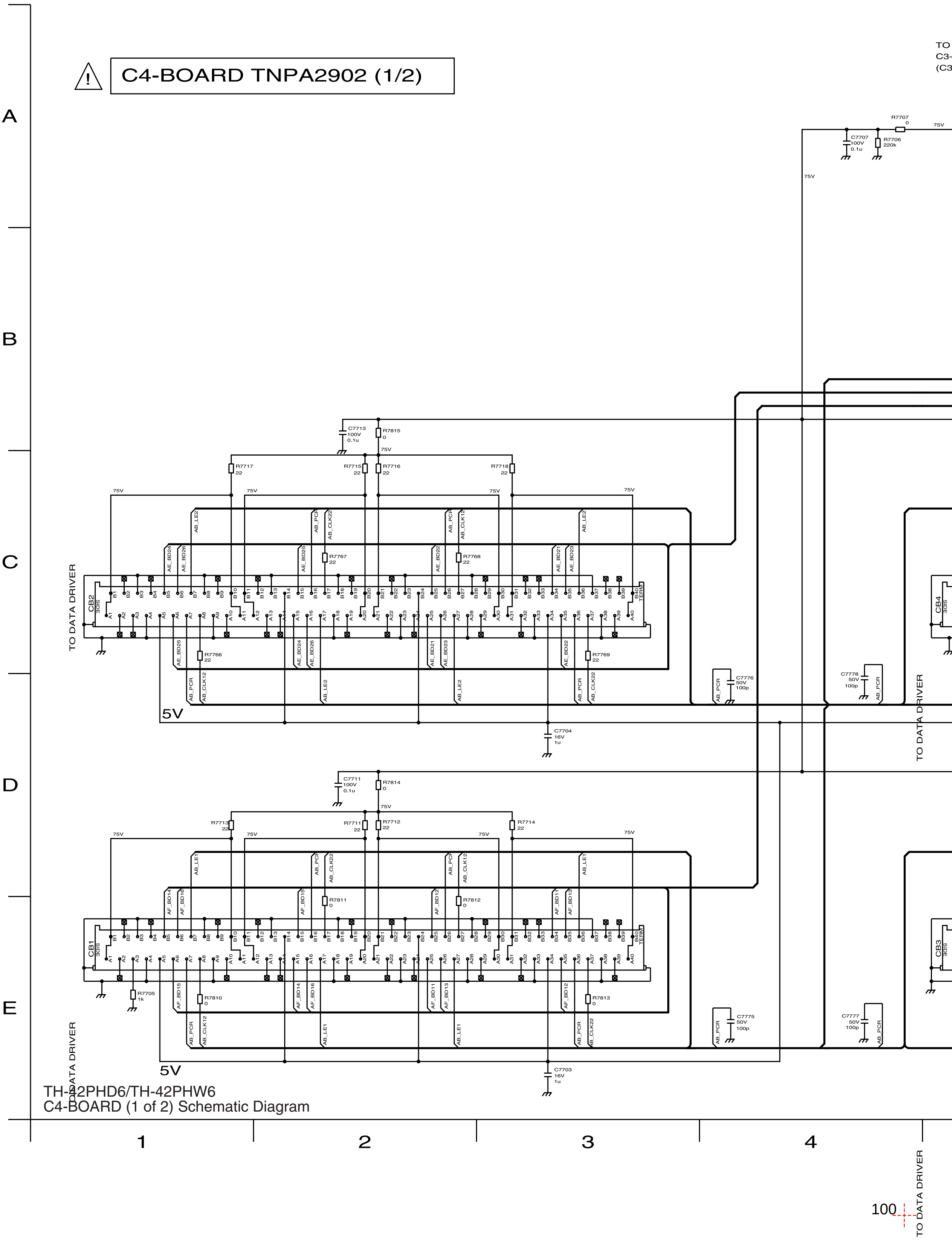

75V
AF_LE8
B35
B36
B37
B38
B39
B40
TERM
A36
A37
A38
A39
A40
R7604
0
R7505
1k
AF_PCL
AF_CLK22

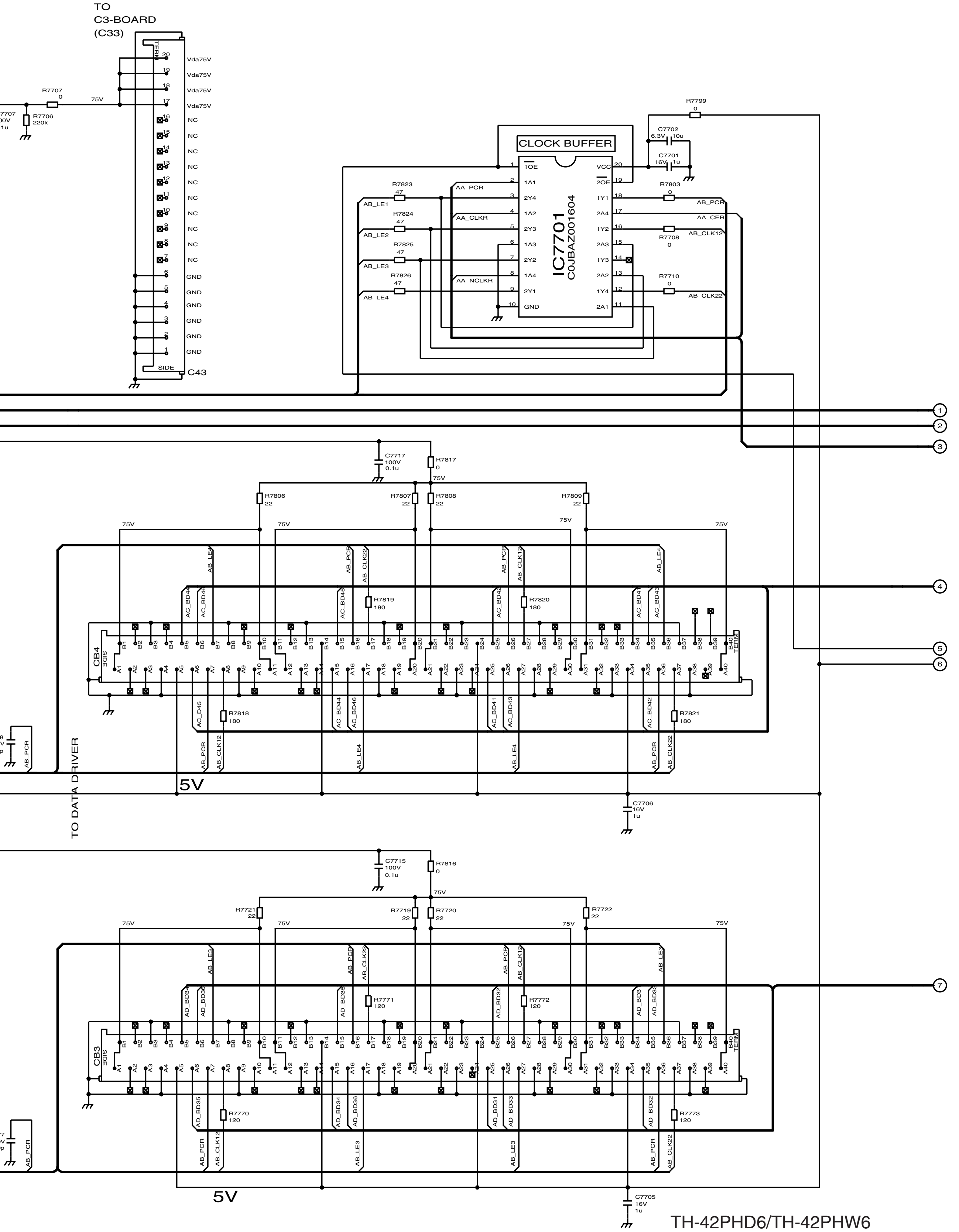

75V
AF_LE7
B35
B36
B37
B38
B39
B40
TERM
A36
A37
A38
A39
A40
R7600
22
AF_PCL
AF_CLK22

TH-42PHD6/TH-42PHW6
C3-BOARD (2 of 2) Schematic Diagram

12 13 14 15

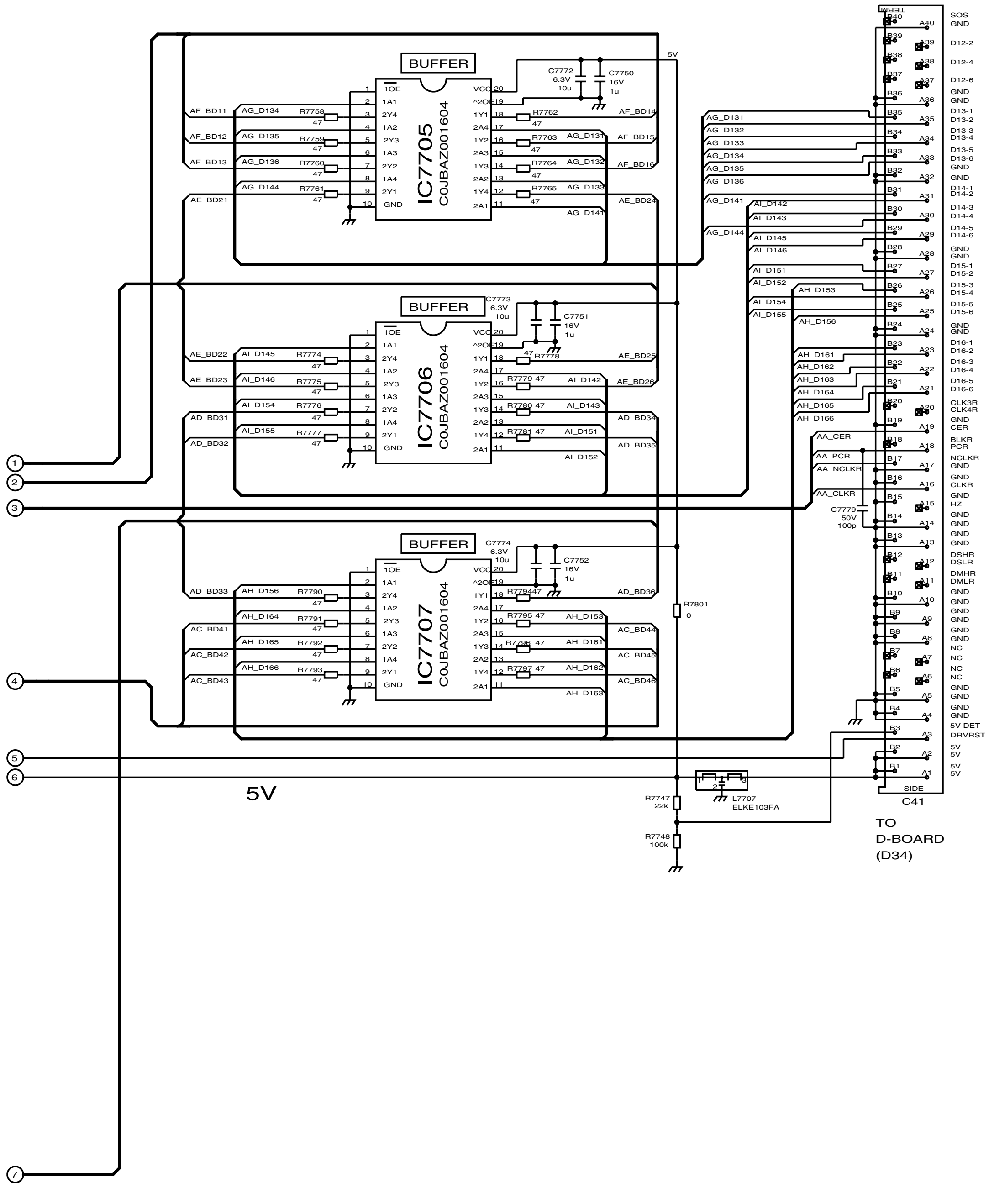
14.46. C4-Board (1 of 2) Schematic Diagram


C4-BOARD TNPA2902 (1/2)
A
B
C
D
E
1
2
3
4
TO
C3-
(C3
R7707
0
75V
C7707
100V
0.1u
R7706
220k
75V
C7713
100V
0.1u
R7815
0
75V
R7717
22
R7715
22
R7716
22
R7718
22
75V
AB_LE2
AB_PCR
AB_CLK22
AB_CLK12
AE_BD24
AE_BD26
AE_BD25
AE_BD22
AE_BD21
AE_BD23
R7767
22
R7768
22
TO DATA DRIVER
CB2
SIDE
TERM
R7766
22
R7769
22
C7776
50V
100p
C7778
50V
100p
CB4
5V
C7704
16V
1u
C7711
100V
0.1u
R7814
0
R7713
22
R7711
22
R7712
22
R7714
22
AB_LE1
AF_BD14
AF_BD16
AF_BD15
AF_BD12
AF_BD11
AF_BD13
R7811
0
R7812
0
CB1
CB3
R7705
1k
R7810
0
R7813
0
C7775
50V
100p
C7777
50V
100p
C7703
16V
1u
TO DATA DRIVER


TO
C3-BOARD
(C33)
C43
TERM
SIDE
Vda75V
NC
GND
R7707
0
75V
R7706
220k
CLOCK BUFFER
IC7701
C0JBAZ001604
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
R7799
0
C7702
6.3V
10u
C7701
16V
1u
R7803
0
R7708
0
R7710
0
R7823
47
R7824
47
R7825
47
R7826
47
AA_PCR
AA_CLKR
AA_NCLKR
AB_LE1
AB_LE2
AB_LE3
AB_LE4
AB_PCR
AA_CER
AB_CLK12
AB_CLK22
C7717
100V
0.1u
R7817
0
R7806
22
R7807
22
R7808
22
R7809
22
R7819
180
R7820
180
R7818
180
R7821
180
CB4
C7706
16V
1u
5V
TO DATA DRIVER
C7715
100V
0.1u
R7816
0
R7721
22
R7719
22
R7720
22
R7722
22
R7771
120
R7772
120
R7770
120
R7773
120
CB3
C7705
16V
1u
5V
5
6
7
8
TO DATA DRIVER

TH-42PHD6/TH-42PHW6
C4-BOARD (1 of 2) Schematic Diagram

14.47. C4-Board (2 of 2) Schematic Diagram


BUFFER
IC7705
C0JBAZ001604
IC7706
C0JBAZ001604
IC7707
C0JBAZ001604
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
^2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
5V
C7772
6.3V
10u
C7750
16V
1u
C7773
6.3V
10u
C7751
16V
1u
C7774
6.3V
10u
C7752
16V
1u
R7758
R7759
R7760
R7761
R7762
R7763
R7764
R7765
R7774
R7775
R7776
R7777
R7778
R7779
R7780
R7781
R7790
R7791
R7792
R7793
R7794
R7795
R7796
R7797
47
AF_BD11
AF_BD12
AF_BD13
AE_BD21
AF_BD14
AF_BD15
AF_BD16
AE_BD24
AE_BD22
AE_BD23
AD_BD31
AD_BD32
AE_BD25
AE_BD26
AD_BD34
AD_BD35
AD_BD33
AC_BD41
AC_BD42
AC_BD43
AD_BD36
AC_BD44
AC_BD45
AC_BD46
AG_D131
AG_D132
AG_D133
AG_D134
AG_D135
AG_D136
AG_D141
AG_D144
AI_D142
AI_D143
AI_D145
AI_D146
AI_D151
AI_D152
AI_D154
AI_D155
AH_D153
AH_D156
AH_D161
AH_D162
AH_D163
AH_D164
AH_D165
AH_D166
AA_CER
AA_PCR
AA_NCLKR
AA_CLKR
C7779
50V
100p
R7801
0
R7747
22k
R7748
100k
L7707
ELKE103FA
TERM
SIDE
C41
B40 … B1
A40 … A1
SOS
GND
D12-2
D12-4
D12-6
D13-1
D13-2
D13-3
D13-4
D13-5
D13-6
D14-1
D14-2
D14-3
D14-4
D14-5
D14-6
D15-1
D15-2
D15-3
D15-4
D15-5
D15-6
D16-1
D16-2
D16-3
D16-4
D16-5
D16-6
CLK3R
CLK4R
CER
BLKR
PCR
NCLKR
CLKR
HZ
DSHR
DSLR
DMHR
DMLR
NC
5V DET
DRVRST
5V
TO
D-BOARD
(D34)
①
②
③
④
⑤
⑥
⑦

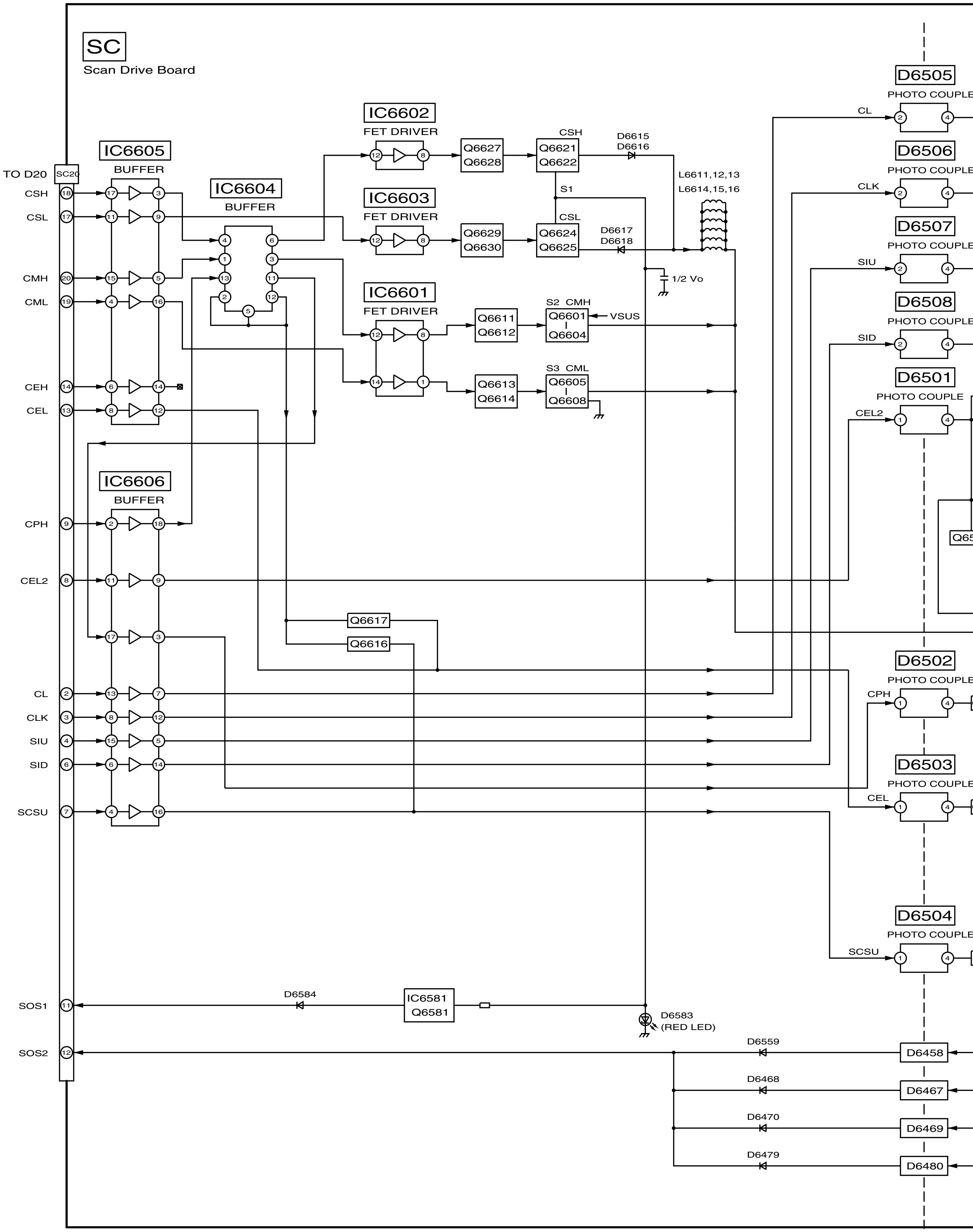
⚠ C4-BOARD TNPA2902 (2/2)

TH-42PHD6/TH-42PHW6
C4-BOARD (2 of 2) Schematic Diagram

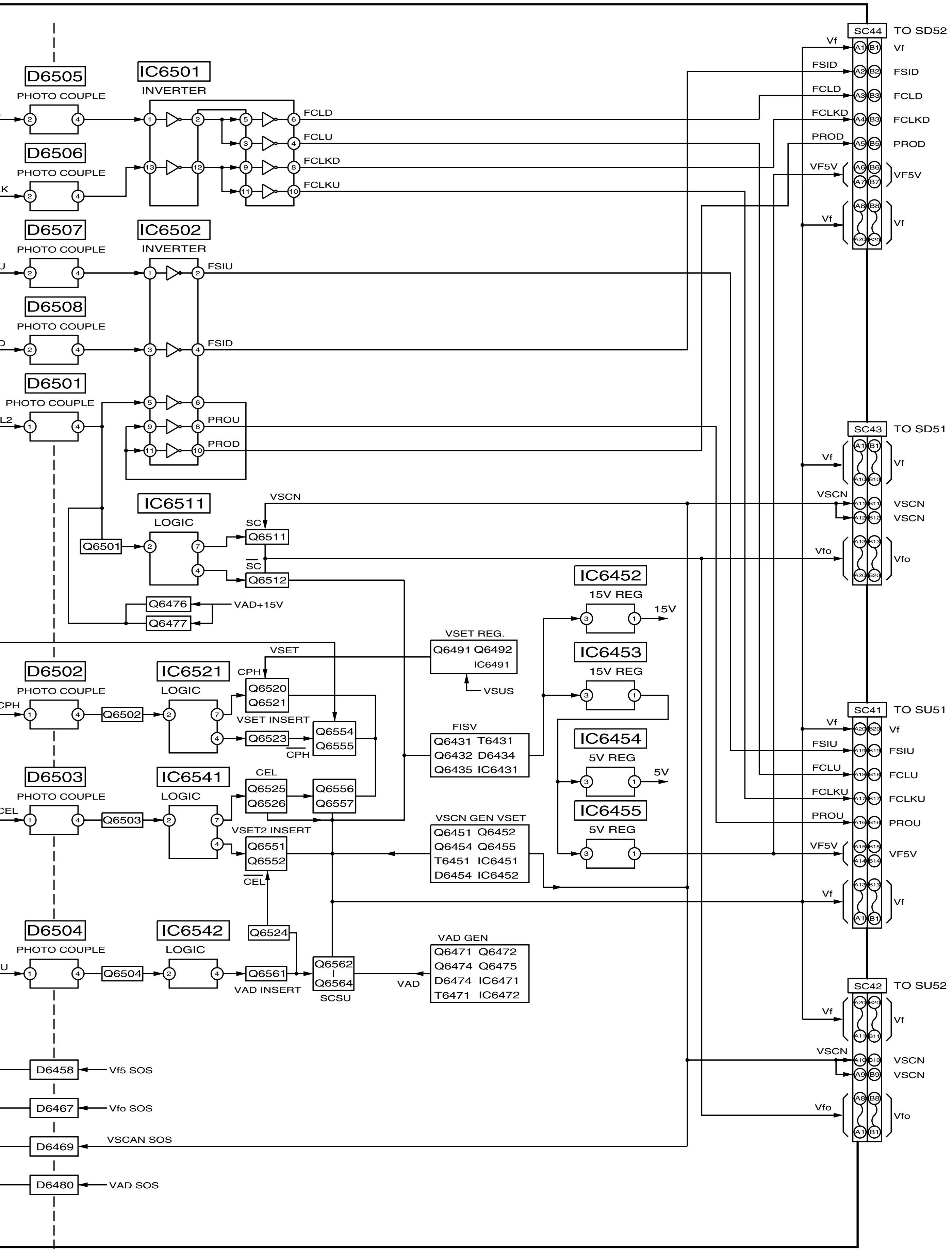
TH-42PHD6/TH-42PHW6
C4-BOARD (2 of 2) Schematic Diagram

12 13 14 15

14.48. SC-Board Block Diagram

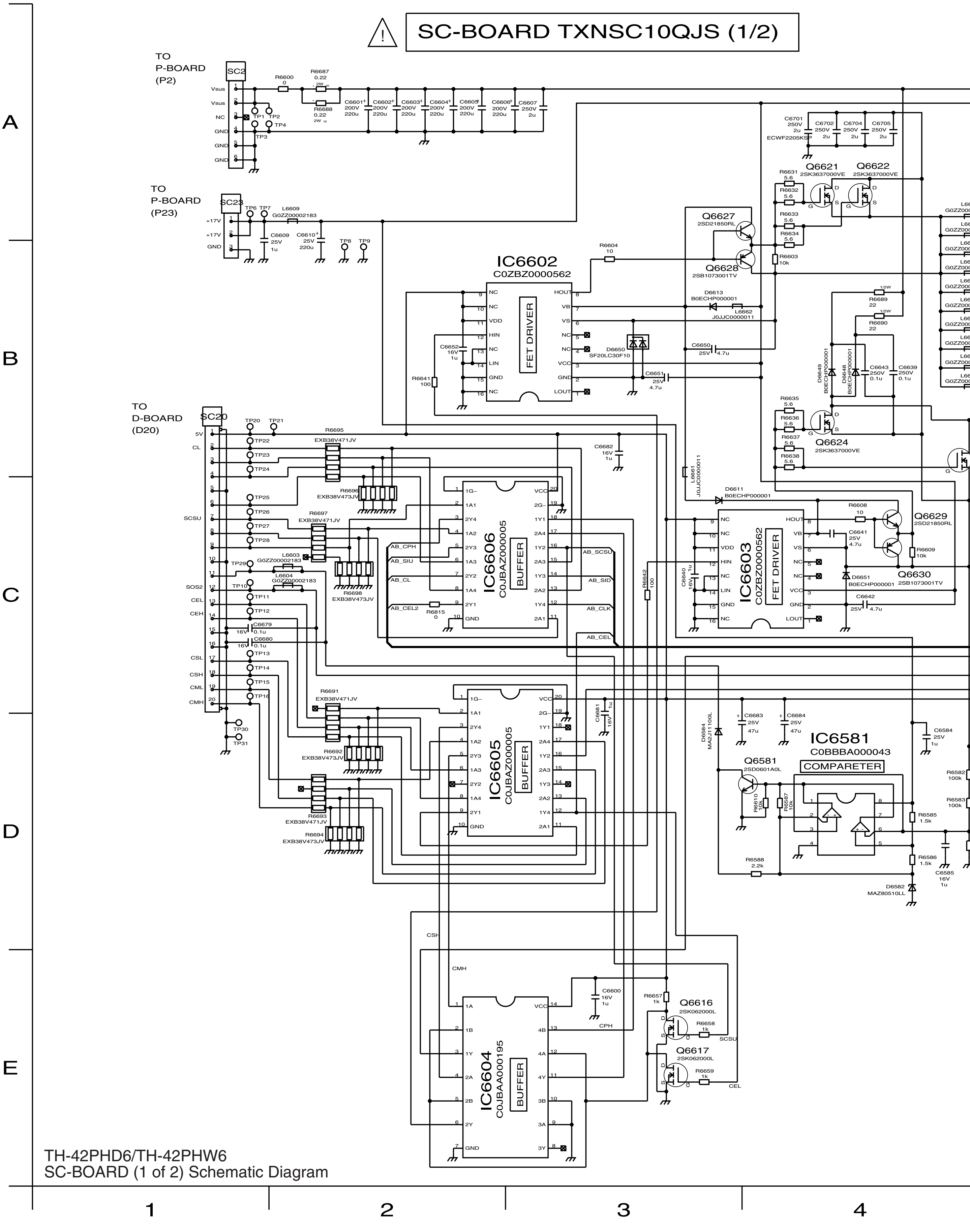

SC
Scan Drive Board
TO D20
SC20
CSH
CSL
CMH
CML
CEH
CEL
CPH
CEL2
CL
CLK
SIU
SID
SCSU
SOS1
SOS2
IC6605
BUFFER
IC6604
BUFFER
IC6606
BUFFER
IC6602
FET DRIVER
IC6603
FET DRIVER
IC6601
FET DRIVER
Q6627
Q6628
Q6629
Q6630
Q6611
Q6612
Q6613
Q6614
CSH
Q6621
Q6622
S1
CSL
Q6624
Q6625
S2 CMH
Q6601
Q6604
VSUS
S3 CML
Q6605
Q6608
D6615
D6616
D6617
D6618
L6611,12,13
L6614,15,16
1/2 Vo
Q6617
Q6616
D6584
IC6581
Q6581
D6583
(RED LED)
D6559
D6468
D6470
D6479
D6458
D6467
D6469
D6480
D6505
PHOTO COUPLE
D6506
PHOTO COUPLE
D6507
PHOTO COUPLE
D6508
PHOTO COUPLE
D6501
PHOTO COUPLE
D6502
PHOTO COUPLE
D6503
PHOTO COUPLE
D6504
PHOTO COUPLE
CL
CLK
SIU
SID
CEL2
CPH
CEL
SCSU
Q65

TH-42PHD6/TH-42PHW6 SC-BOARD Block Diagram

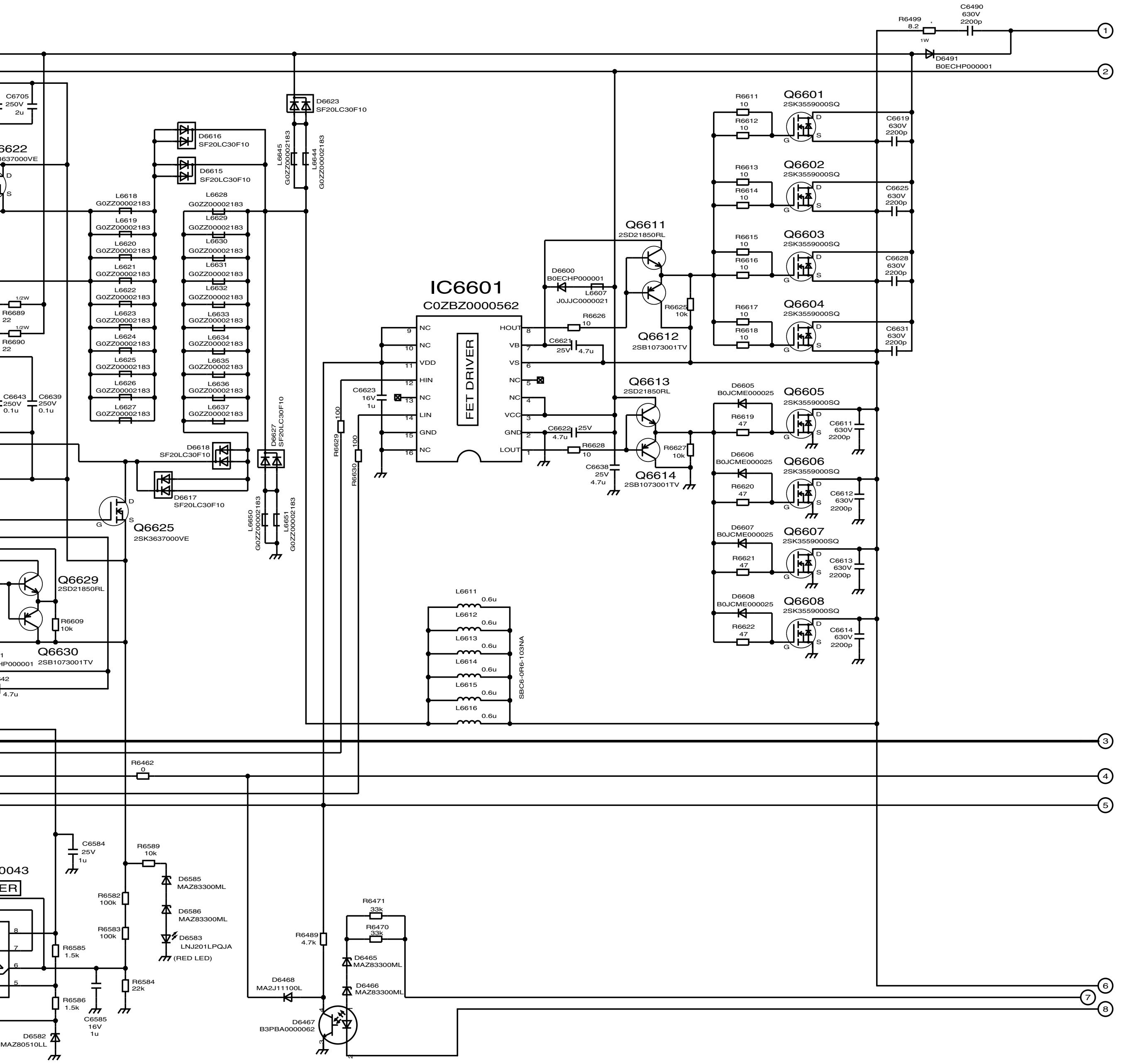

D6505
PHOTO COUPLE
D6506
PHOTO COUPLE
D6507
PHOTO COUPLE
D6508
PHOTO COUPLE
D6501
PHOTO COUPLE
IC6501
INVERTER
IC6502
INVERTER
FCLD
FCLU
FCLKD
FCLKU
FSIU
FSID
PROU
PROD
IC6511
LOGIC
Q6501
VSCN
SC
Q6511
SC
Q6512
Q6476
Q6477
VAD+15V
IC6452
15V REG
15V
IC6453
15V REG
VSET REG.
Q6491 Q6492
IC6491
VSUS
VSET
CPH
D6502
PHOTO COUPLE
Q6502
IC6521
LOGIC
Q6520
Q6521
VSET INSERT
Q6523
CPH
Q6554
Q6555
FISV
Q6431 T6431
Q6432 D6434
Q6435 IC6431
IC6454
5V REG
5V
IC6455
5V REG
D6503
PHOTO COUPLE
Q6503
IC6541
LOGIC
CEL
Q6525
Q6526
Q6556
Q6557
VSET2 INSERT
Q6551
Q6552
CEL
VSCN GEN VSET
Q6451 Q6452
Q6454 Q6455
T6451 IC6451
D6454 IC6452
D6504
PHOTO COUPLE
Q6504
IC6542
LOGIC
Q6524
Q6561
VAD INSERT
Q6562
Q6564
SCSU
VAD
VAD GEN
Q6471 Q6472
Q6474 Q6475
D6474 IC6471
T6471 IC6472
D6458
Vf5 SOS
D6467
Vfo SOS
D6469
VSCAN SOS
D6480
VAD SOS
SC44
TO SD52
Vf
FSID
FCLD
FCLKD
PROD
VF5V
SC43
TO SD51
Vf
VSCN
Vfo
SC41
TO SU51
Vf
FSIU
FCLU
FCLKU
PROU
VF5V
SC42
TO SU52
Vf
VSCN
Vfo

TH-42PHD6/TH-42PHW6 SC-BOARD Block Diagram

14.49. SC-Board (1 of 2) Schematic Diagram


SC-BOARD TXNSC10QJS (1/2)
TO P-BOARD (P2)
SC2
Vsus
Vsus
NC
GND
GND
GND
TP1
TP2
TP3
TP4
R6600 0
R6687 0.22 2W
R6688 0.22 2W
C6601 200V 220u
C6602 200V 220u
C6603 200V 220u
C6604 200V 220u
C6605 200V 220u
C6606 200V 220u
C6607 250V 2u
C6701 250V 2u
ECWF2205KSP
C6702 250V 2u
C6704 250V 2u
C6705 250V 2u
TO P-BOARD (P23)
SC23
+17V
+17V
GND
TP6
TP7
L6609 G0ZZ00002183
C6609 25V 1u
C6610 25V 220u
TP8
TP9
Q6621 2SK3637000VE
Q6622 2SK3637000VE
R6631 5.6
R6632 5.6
R6633 5.6
R6634 5.6
R6603 10k
Q6627 2SD21850RL
Q6628 2SB1073001TV
R6604 10
IC6602 C0ZBZ0000562
FET DRIVER
NC
NC
VDD
HIN
NC
LIN
GND
NC
HOUT
VB
VS
NC
NC
VCC
GND
LOUT
C6652 16V 1u
R6641 100
D6650 SF20LC30F10
D6613 B0ECHP000001
L6662 J0JJC0000011
C6650 25V 4.7u
C6651 25V 4.7u
R6689 22 1/2W
R6690 22 1/2W
D6649 B0ECHP000001
D6648 B0ECHP000001
C6643 250V 0.1u
C6639 250V 0.1u
R6635 5.6
R6636 5.6
R6637 5.6
R6638 5.6
Q6624 2SK3637000VE
TO D-BOARD (D20)
SC20
5V
CL
SCSU
SOS2
CEL
CEH
CSL
CSH
CML
CMH
TP20
TP21
TP22
TP23
TP24
TP25
TP26
TP27
TP28
TP29
TP10
TP11
TP12
TP13
TP14
TP15
TP16
TP30
TP31
R6695 EXB38V471JV
R6696 EXB38V473JV
R6697 EXB38V471JV
R6698 EXB38V473JV
L6603 G0ZZ00002183
L6604 G0ZZ00002183
C6679 16V 0.1u
C6680 16V 0.1u
C6682 16V 1u
IC6606 C0JBAZ000005
BUFFER
1G-
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2G-
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
AB_CPH
AB_SIU
AB_CL
AB_CEL2
AB_SCSU
AB_SID
AB_CLK
AB_CEL
R6815 0
R6642 100
L6661 J0JJC0000011
D6611 B0ECHP000001
IC6603 C0ZBZ0000562
FET DRIVER
C6640 16V 1u
R6608 10
C6641 25V 4.7u
R6609 10k
Q6629 2SD21850RL
Q6630 2SB1073001TV
D6651 B0ECHP000001
C6642 25V 4.7u
R6691 EXB38V471JV
R6692 EXB38V473JV
R6693 EXB38V471JV
R6694 EXB38V473JV
IC6605 C0JBAZ000005
BUFFER
C6681 16V 1u
C6683 25V 47u
C6684 25V 47u
D6584 MA2J11100L
IC6581 C0BBBA000043
COMPARETER
Q6581 2SD0601A0L
R6610 10k
R6587 10k
C6584 25V 1u
R6582 100k
R6583 100k
R6585 1.5k
R6586 1.5k
R6588 2.2k
C6585 16V 1u
D6582 MAZ80510LL
CSH
CMH
IC6604 C0JBAA000195
BUFFER
1A
1B
1Y
2A
2B
2Y
GND
VCC
4B
4A
4Y
3B
3A
3Y
C6600 16V 1u
CPH
R6657 1k
Q6616 2SK062000L
R6658 1k
SCSU
Q6617 2SK062000L
R6659 1k
CEL
A
B
C
D
E
1
2
3
4

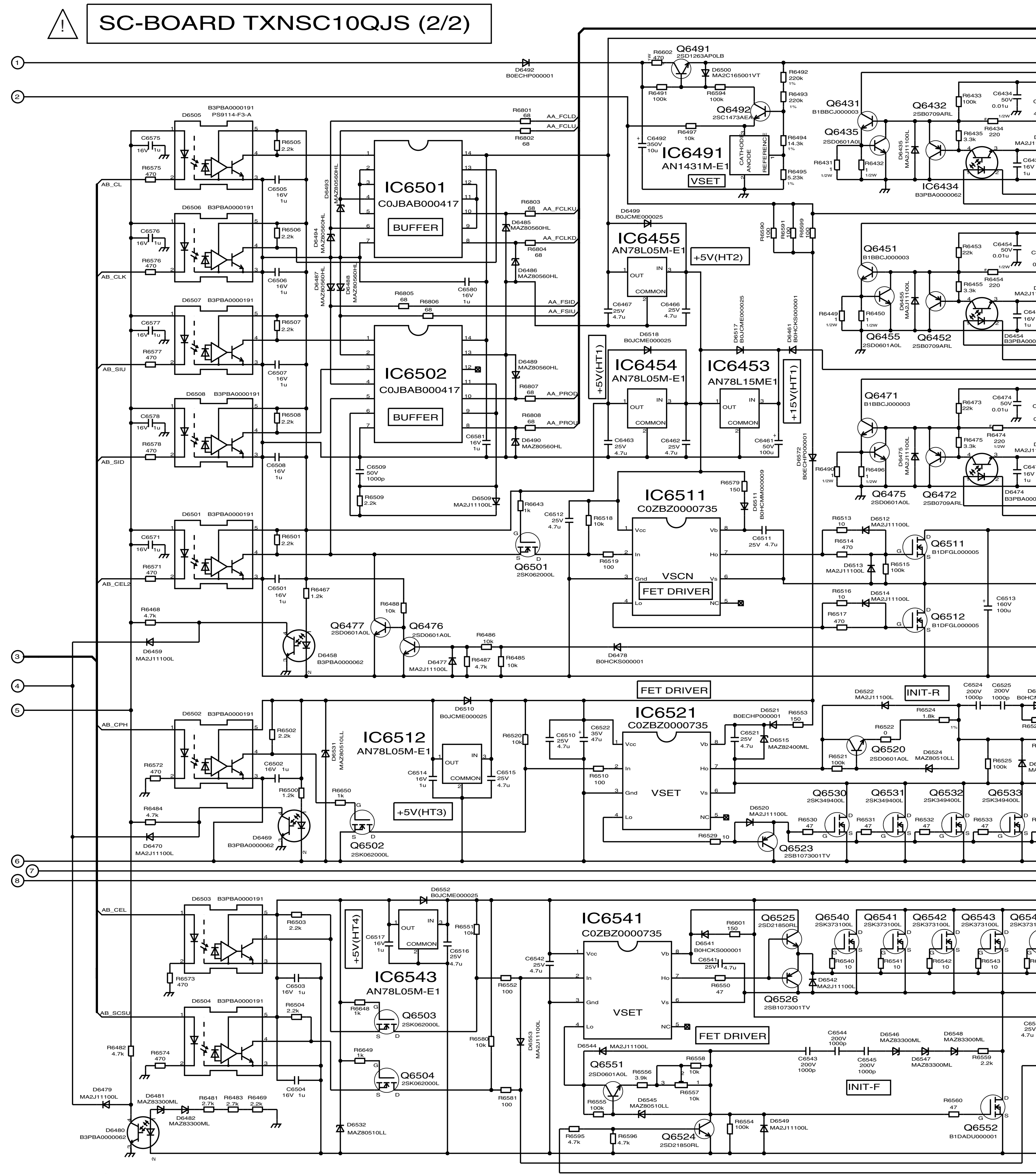
TH-42PHD6/TH-42PHW6
SC-BOARD (1 of 2) Schematic Diagram


IC6601
C0ZBZ0000562
FET DRIVER
NC
NC
VDD
HIN
NC
LIN
GND
NC
HOUT
VB
VS
NC
NC
VCC
GND
LOUT
Q6601
2SK3559000SQ
Q6602
2SK3559000SQ
Q6603
2SK3559000SQ
Q6604
2SK3559000SQ
Q6605
2SK3559000SQ
Q6606
2SK3559000SQ
Q6607
2SK3559000SQ
Q6608
2SK3559000SQ
Q6611
2SD21850RL
Q6612
2SB1073001TV
Q6613
2SD21850RL
Q6614
2SB1073001TV
Q6622
Q6625
2SK3637000VE
Q6629
2SD21850RL
Q6630
2SB1073001TV
R6499
8.2
1W
C6490
630V
2200p
D6491
B0ECHP000001
C6705
250V
2u
D6623
SF20LC30F10
D6616
SF20LC30F10
D6615
SF20LC30F10
D6618
SF20LC30F10
D6617
SF20LC30F10
D6627
SF20LC30F10
L6645
G0ZZ00002183
L6644
G0ZZ00002183
L6650
G0ZZ00002183
L6651
G0ZZ00002183
L6618
L6619
L6620
L6621
L6622
L6623
L6624
L6625
L6626
L6627
L6628
L6629
L6630
L6631
L6632
L6633
L6634
L6635
L6636
L6637
G0ZZ00002183
R6689
22
R6690
22
1/2W
C6643
250V
0.1u
C6639
250V
0.1u
D6600
B0ECHP000001
L6607
J0JJC0000021
R6626
10
R6625
10k
C6621
25V
4.7u
C6623
16V
1u
R6629
100
R6630
100
C6622
25V
4.7u
R6628
10
R6627
10k
C6638
25V
4.7u
R6611
R6612
R6613
R6614
R6615
R6616
R6617
R6618
10
C6619
C6625
C6628
C6631
630V
2200p
D6605
D6606
D6607
D6608
B0JCME000025
R6619
R6620
R6621
R6622
47
C6611
C6612
C6613
C6614
630V
2200p
R6609
10k
L6611
L6612
L6613
L6614
L6615
L6616
0.6u
SBC6-0R6-103NA
R6462
0
C6584
25V
1u
R6589
10k
D6585
MAZ83300ML
D6586
MAZ83300ML
D6583
LNJ201LPQJA
(RED LED)
R6582
100k
R6583
100k
R6584
22k
R6585
1.5k
R6586
1.5k
C6585
16V
1u
D6582
MAZ80510LL
R6489
4.7k
R6471
33k
R6470
33k
D6465
MAZ83300ML
D6466
MAZ83300ML
D6468
MA2J11100L
D6467
B3PBA0000062
0043
ER
1
2
3
4
5
6
7
8
D
S
G

TH-42PHD6/TH-42PHW6
SC-BOARD (1 of 2) Schematic Diagram

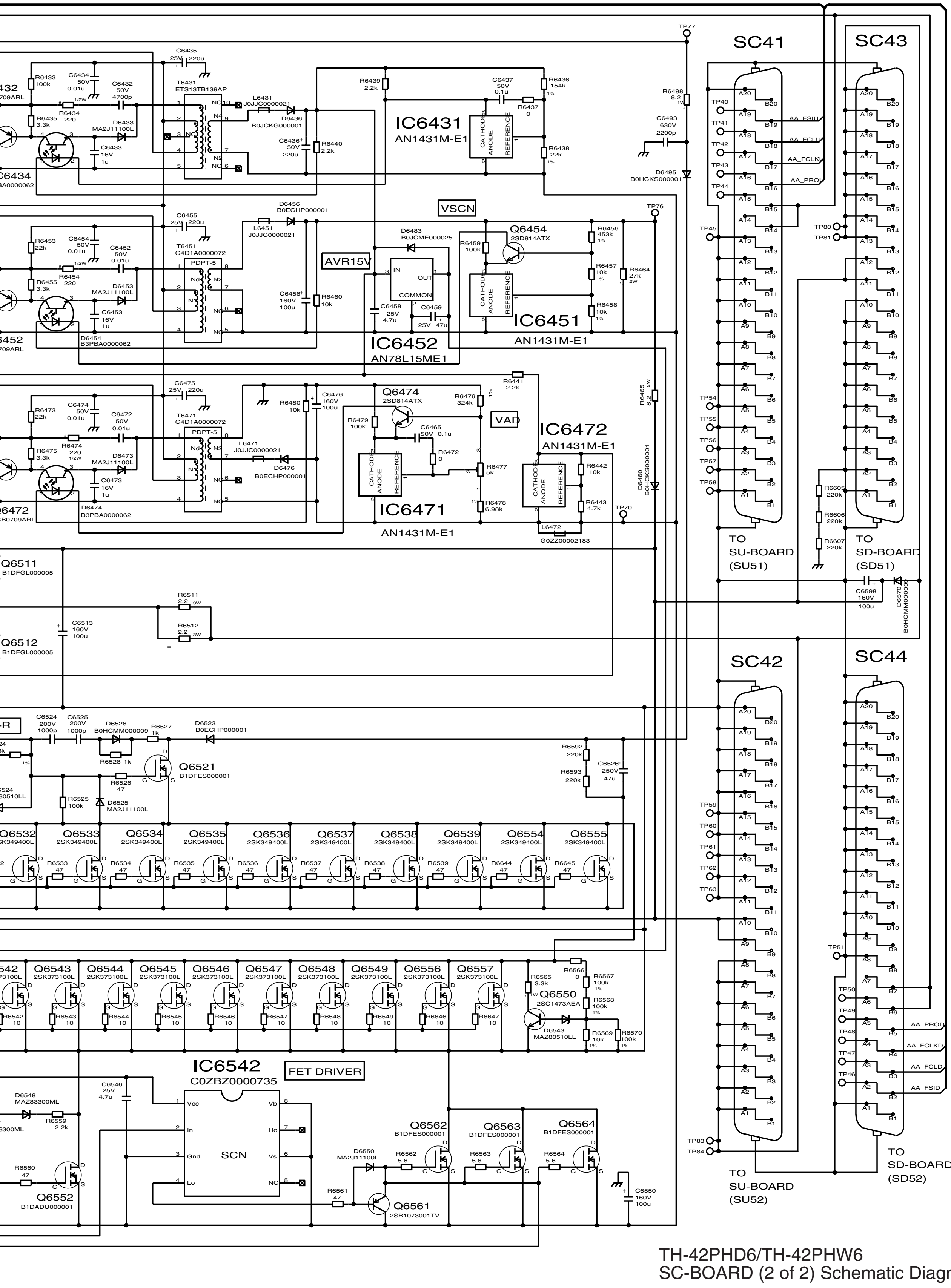
5 6 7 8

14.50. SC-Board (2 of 2) Schematic Diagram


SC-BOARD TXNSC10QJS (2/2)
1
2
3
4
5
6
7
8
AB_CL
AB_CLK
AB_SIU
AB_SID
AB_CEL2
AB_CPH
AB_CEL
AB_SCSU
AA_FCLD
AA_FCLU
AA_FCLKU
AA_FCLKD
AA_FSID
AA_FSIU
AA_PROD
AA_PROU
IC6501
C0JBAB000417
BUFFER
IC6502
C0JBAB000417
BUFFER
IC6491
AN1431M-E1
VSET
CATHODE
ANODE
REFERENCE
IC6455
AN78L05M-E1
+5V(HT2)
IC6454
AN78L05M-E1
IC6453
AN78L15ME1
+5V(HT1)
+15V(HT1)
IC6511
C0ZBZ0000735
VSCN
FET DRIVER
IC6512
AN78L05M-E1
+5V(HT3)
IC6521
C0ZBZ0000735
VSET
FET DRIVER
INIT-R
IC6541
C0ZBZ0000735
VSET
FET DRIVER
INIT-F
IC6543
AN78L05M-E1
+5V(HT4)
IC6434
B3PBA0000062
Q6491
2SD1263AP0LB
Q6492
2SC1473AEA
Q6431
B1BBCJ000003
Q6432
2SB0709ARL
Q6435
2SD0601A0L
Q6451
B1BBCJ000003
Q6455
2SD0601A0L
Q6452
2SB0709ARL
Q6471
B1BBCJ000003
Q6475
2SD0601A0L
Q6472
2SB0709ARL
Q6501
2SK062000L
Q6477
2SD0601A0L
Q6476
2SD0601A0L
Q6511
B1DFGL000005
Q6512
B1DFGL000005
Q6502
2SK062000L
Q6520
2SD0601A0L
Q6523
2SB1073001TV
Q6530
2SK349400L
Q6531
2SK349400L
Q6532
2SK349400L
Q6533
2SK349400L
Q6503
2SK062000L
Q6504
2SK062000L
Q6525
2SD21850RL
Q6526
2SB1073001TV
Q6540
2SK373100L
Q6541
2SK373100L
Q6542
2SK373100L
Q6543
2SK373100L
Q6551
2SD0601A0L
Q6524
2SD21850RL
Q6552
B1DADU000001
D6505
D6506
D6507
D6508
D6501
D6502
D6503
D6504
B3PBA0000191
PS9114-F3-A
D6492
B0ECHP000001
D6458
B3PBA0000062
D6469
B3PBA0000062
D6480
B3PBA0000062
D6459
MA2J11100L
D6470
MA2J11100L
D6479
MA2J11100L
D6478
B0HCKS000001
D6510
B0JCME000025
D6552
B0JCME000025
D6499
B0JCME000025
D6518
B0JCME000025
D6521
B0ECHP000001
D6541
B0HCKS000001

TH-42PHD6/TH-42PHW6
SC-BOARD (2 of 2) Schematic Diagram

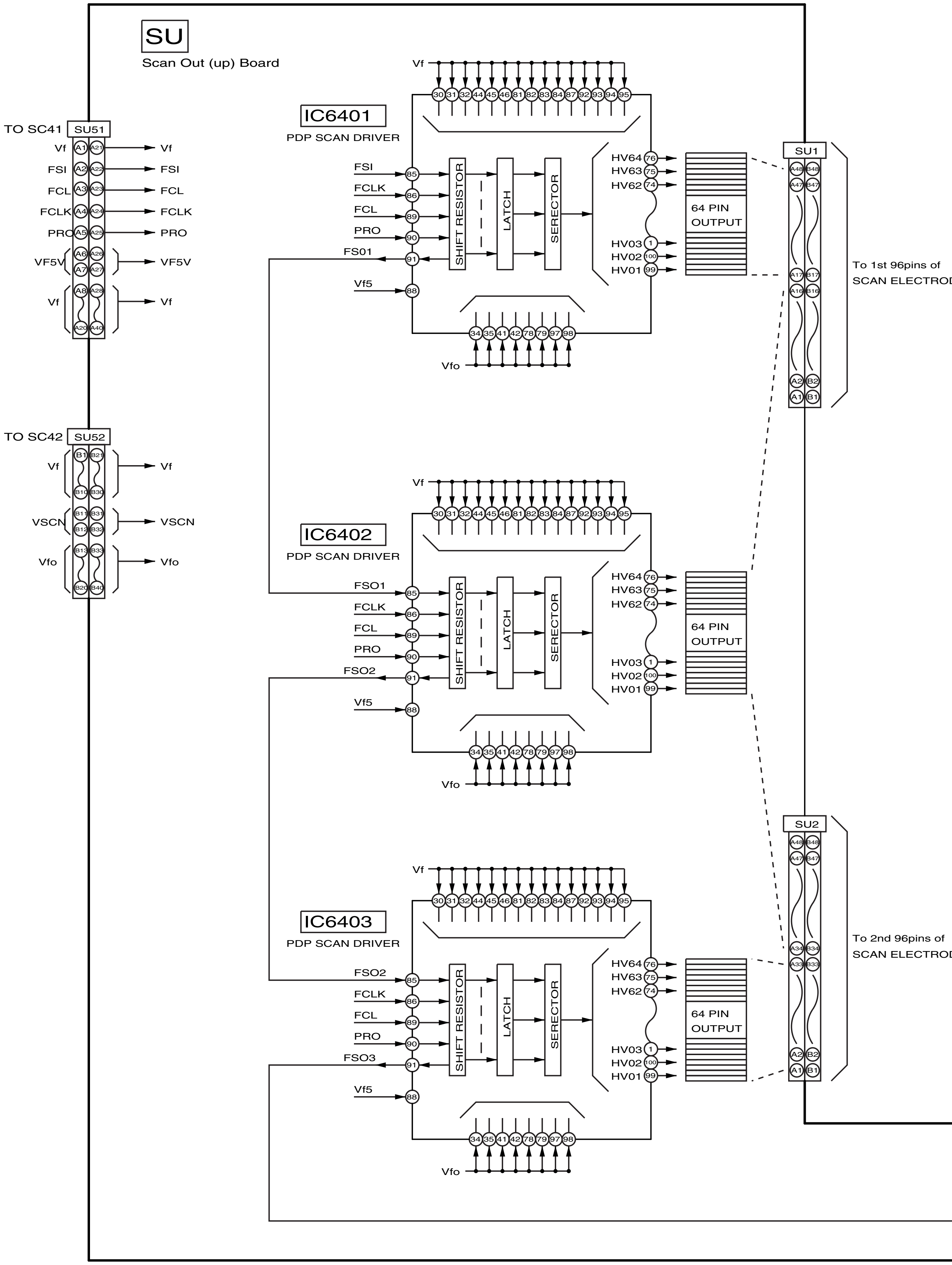
8 9 10 11 12


SC41
SC43
SC42
SC44
TO SU-BOARD (SU51)
TO SD-BOARD (SD51)
TO SU-BOARD (SU52)
TO SD-BOARD (SD52)
IC6431
AN1431M-E1
IC6451
AN1431M-E1
IC6452
AN78L15ME1
IC6471
AN1431M-E1
IC6472
AN1431M-E1
IC6542
C0ZBZ0000735
FET DRIVER
SCN
VSCN
AVR15V
VAD
Q6454
2SD814ATX
Q6474
2SD814ATX
Q6511
B1DFGL000005
Q6512
B1DFGL000005
Q6521
B1DFES000001
Q6532
Q6533
Q6534
Q6535
Q6536
Q6537
Q6538
Q6539
Q6554
Q6555
2SK349400L
Q6543
Q6544
Q6545
Q6546
Q6547
Q6548
Q6549
Q6556
Q6557
2SK373100L
Q6550
2SC1473AEA
Q6552
B1DADU000001
Q6561
2SB1073001TV
Q6562
Q6563
Q6564
B1DFES000001
T6431
ETS13TB139AP
T6451
G4D1A0000072
T6471
G4D1A0000072
PDPT-5
L6431
L6451
L6471
J0JJC0000021
L6472
G0ZZ00002183
D6495
B0HCKS000001
D6460
B0HCKS000001
D6570
B0HCMM000009
D6483
B0JCME000025
D6526
B0HCMM000009
D6523
B0ECHP000001
D6525
MA2J11100L
D6543
MAZ80510LL
D6548
MAZ83300ML
D6550
MA2J11100L
C6598
160V
100u
C6493
630V
2200p
R6498
8.2
R6465
8.2
R6511
2.2
R6512
2.2
C6513
160V
100u
TP40
TP41
TP42
TP43
TP44
TP45
TP46
TP47
TP48
TP49
TP50
TP51
TP54
TP55
TP56
TP57
TP58
TP59
TP60
TP61
TP62
TP63
TP70
TP76
TP77
TP80
TP81
TP83
TP84
AA_FSIU
AA_FCLU
AA_FCLKU
AA_PROU
AA_PROD
AA_FCLKD
AA_FCLD
AA_FSID

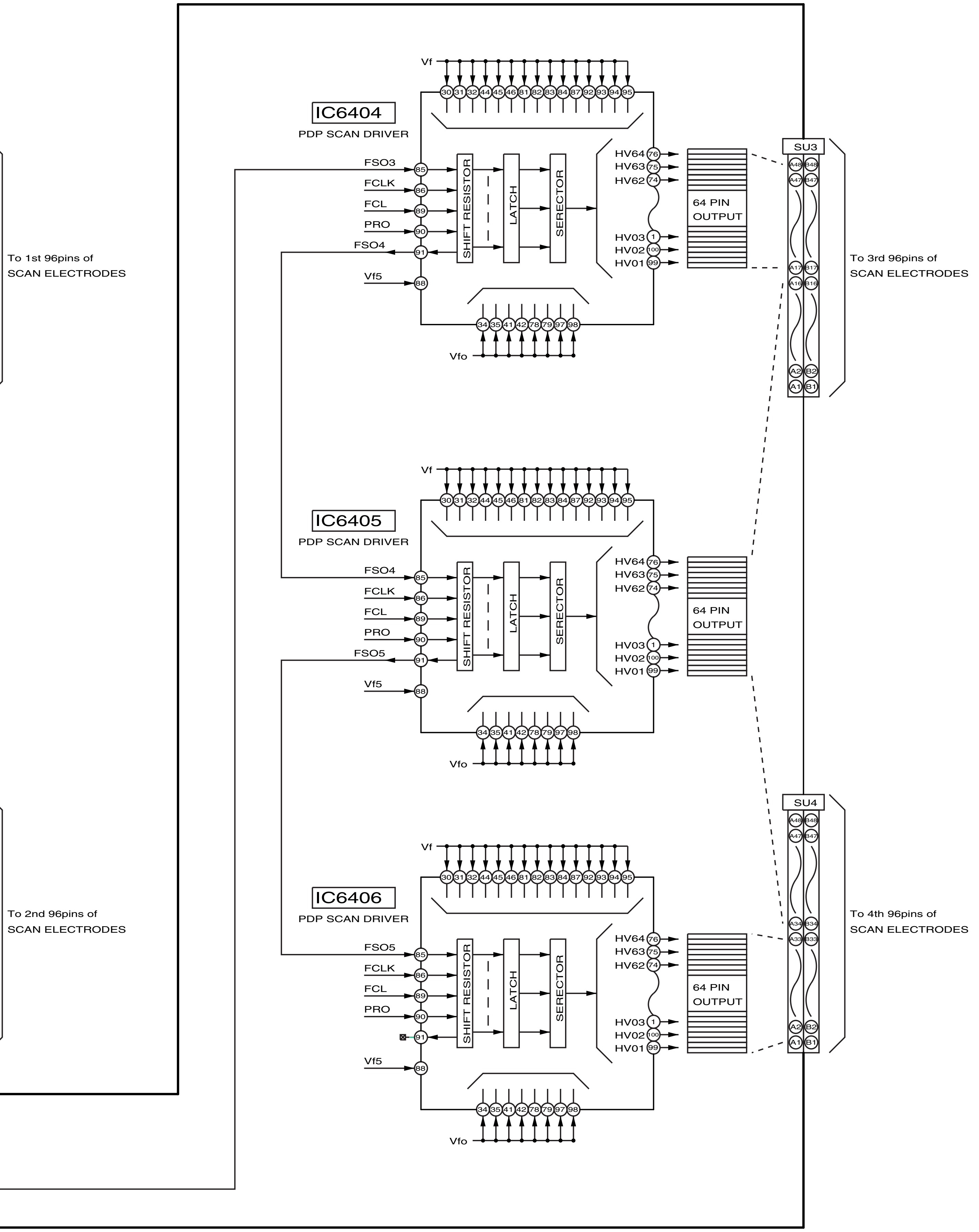
TH-42PHD6/TH-42PHW6
SC-BOARD (2 of 2) Schematic Diagram

12 13 14 15

14.51. SU-Board Block Diagram

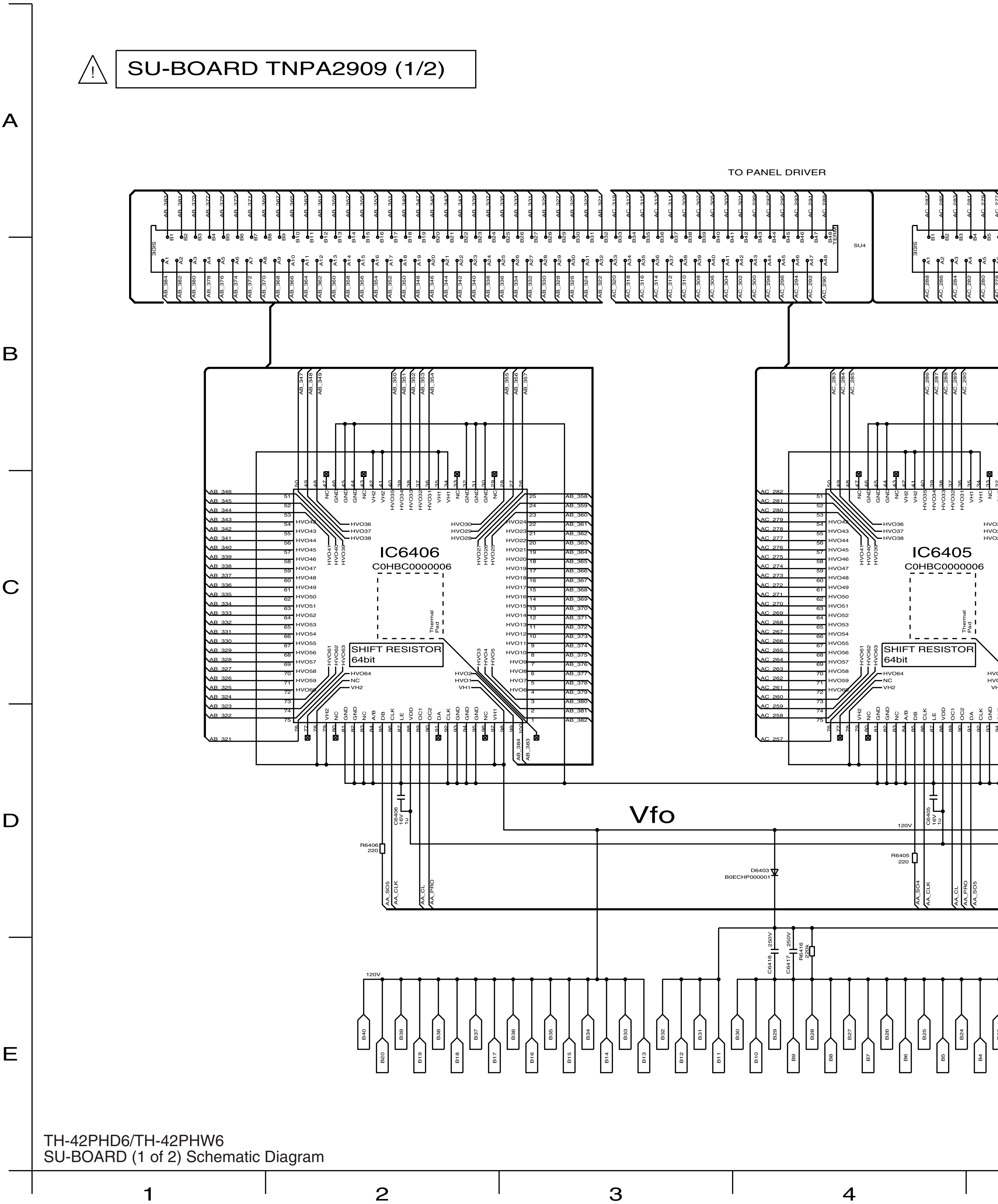

SU
Scan Out (up) Board
TO SC41
SU51
Vf
FSI
FCL
FCLK
PRO
VF5V
Vf
TO SC42
SU52
Vf
VSCN
Vfo
IC6401
PDP SCAN DRIVER
IC6402
PDP SCAN DRIVER
IC6403
PDP SCAN DRIVER
Vf
Vfo
FSI
FCLK
FCL
PRO
FS01
Vf5
FSO1
FSO2
FSO3
SHIFT RESISTOR
LATCH
SERECTOR
HV64
HV63
HV62
HV03
HV02
HV01
64 PIN
OUTPUT
SU1
SU2
To 1st 96pins of
SCAN ELECTROD
To 2nd 96pins of
SCAN ELECTROD

TH-42PHD6/TH-42PHW6
SU-BOARD Block Diagram

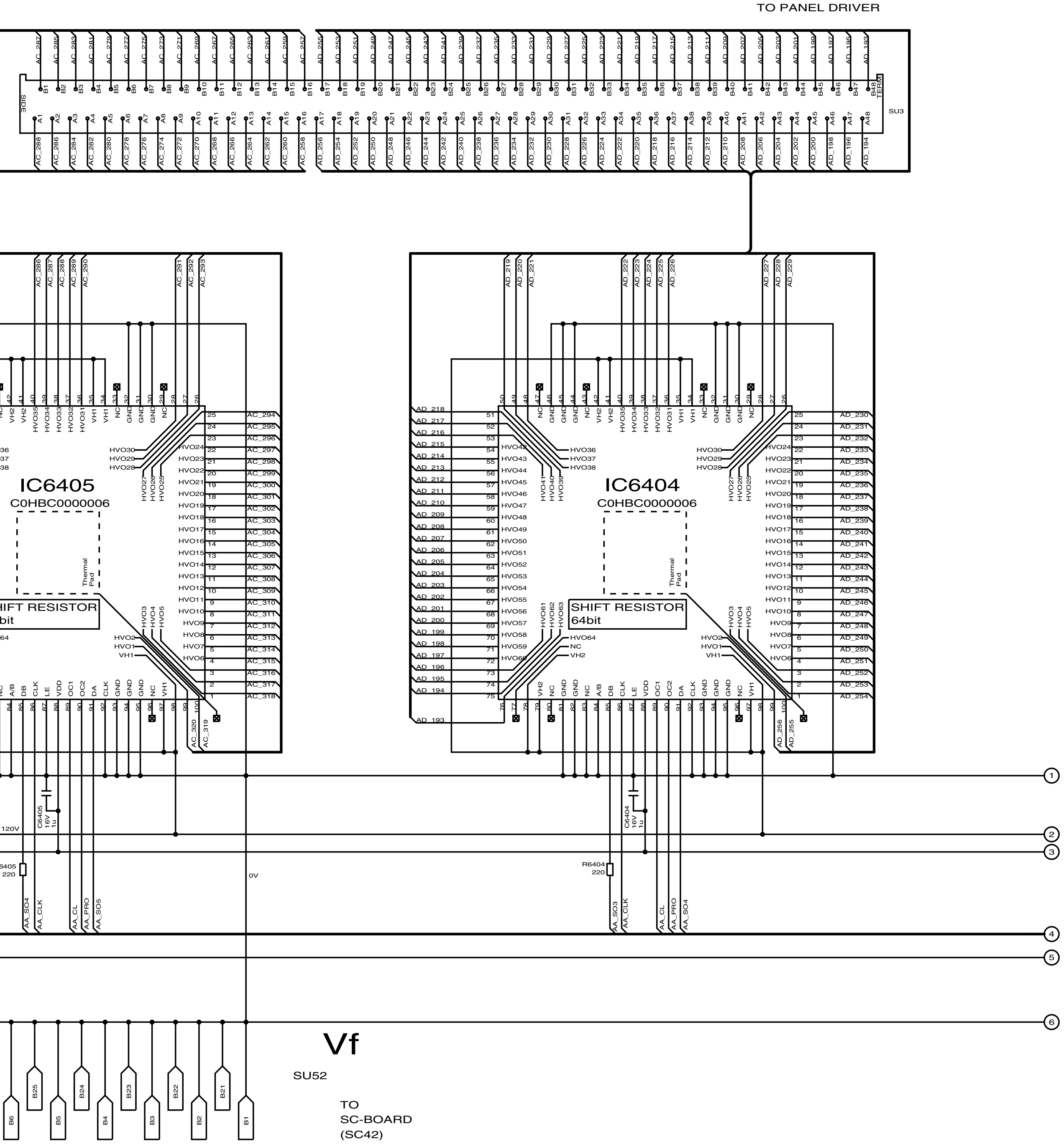

IC6404
PDP SCAN DRIVER
IC6405
PDP SCAN DRIVER
IC6406
PDP SCAN DRIVER
Vf
30 31 32 44 45 46 81 82 83 84 87 92 93 94 95
FSO3
FSO4
FSO5
FCLK
FCL
PRO
Vf5
85
86
89
90
91
88
SHIFT RESISTOR
LATCH
SERECTOR
HV64 76
HV63 75
HV62 74
HV03 1
HV02 100
HV01 99
64 PIN OUTPUT
34 35 41 42 78 79 97 98
Vfo
SU3
SU4
A48 B48
A47 B47
A34 B34
A33 B33
A17 B17
A16 B16
A2 B2
A1 B1
To 1st 96pins of SCAN ELECTRODES
To 2nd 96pins of SCAN ELECTRODES
To 3rd 96pins of SCAN ELECTRODES
To 4th 96pins of SCAN ELECTRODES

TH-42PHD6/TH-42PHW6
SU-BOARD Block Diagram

14.52. SU-Board (1 of 2) Schematic Diagram


SU-BOARD TNPA2909 (1/2)
TO PANEL DRIVER
SU4
SIDE
TERM
IC6406
C0HBC0000006
IC6405
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
Vfo
120V
C6406 16V 1u
C6405 16V 1u
R6406 220
R6405 220
D6403 B0ECHP000001
C6418 250V
C6417 250V
R6416 220k
AA_SO5
AA_CLK
AA_CL
AA_PRO
AA_SO4
A
B
C
D
E
1
2
3
4

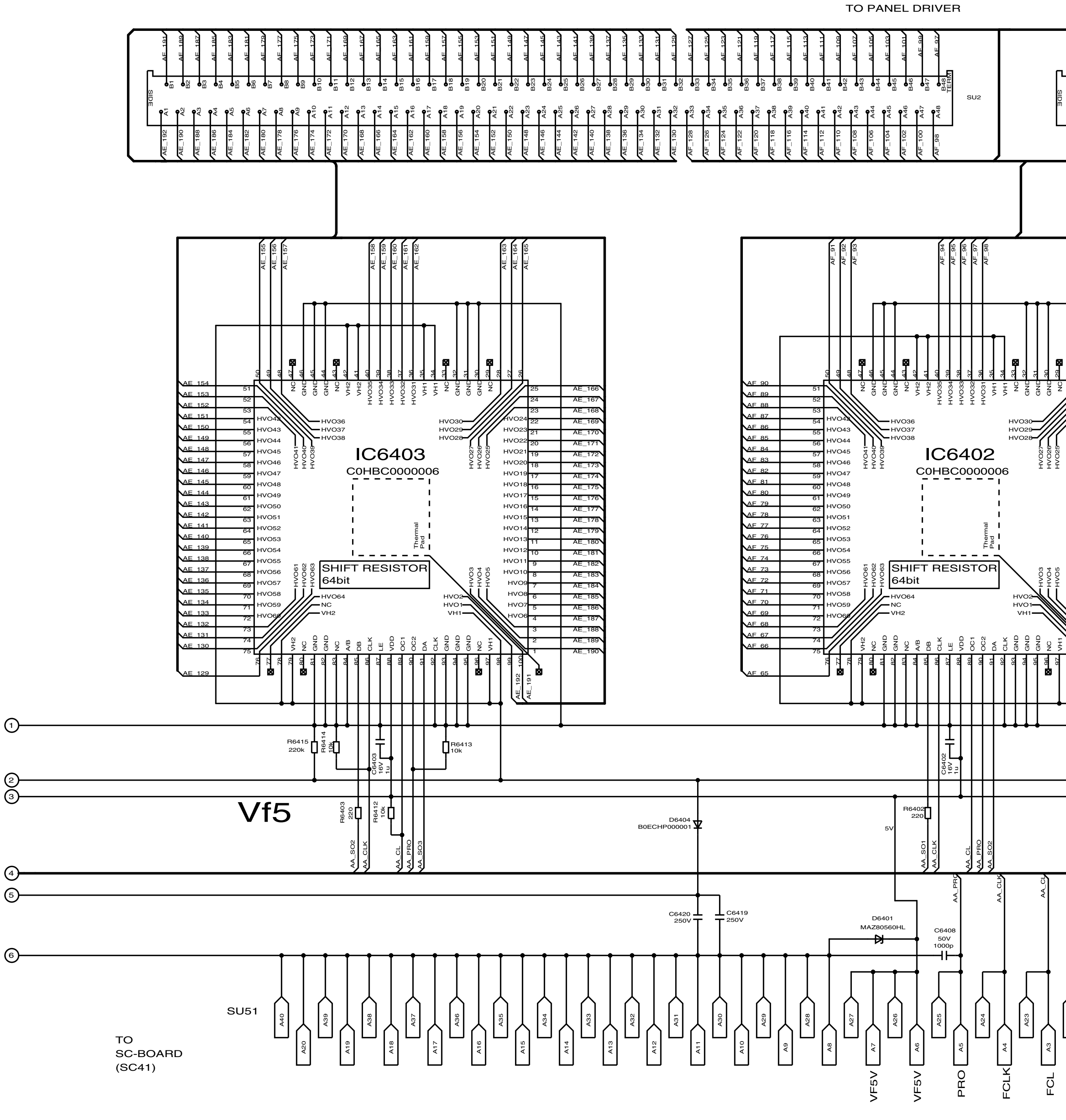
TH-42PHD6/TH-42PHW6
SU-BOARD (1 of 2) Schematic Diagram

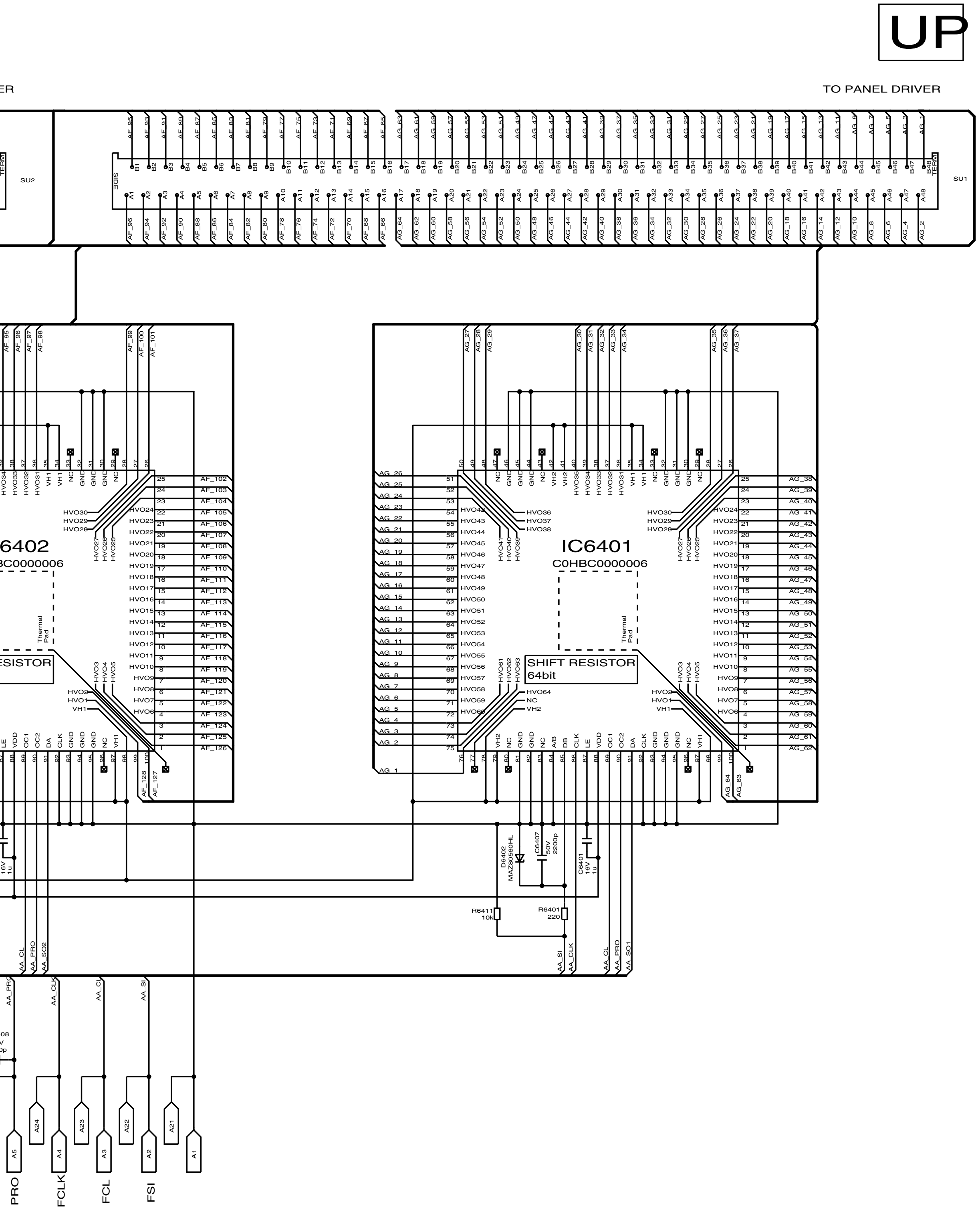

TO PANEL DRIVER
SU3
SIDE
TERM
IC6405
C0HBC0000006
IC6404
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
C6405
16V
1u
C6404
16V
1u
R6405
220
R6404
220
120V
0V
AA_SO4
AA_CLK
AA_CL
AA_PRO
AA_SO5
AA_SO3
Vf
SU52
TO
SC-BOARD
(SC42)
B1
B2
B3
B4
B5
B6
B21
B22
B23
B24
B25
1
2
3
4
5
6
5
6
7
8

TH-42PHD6/TH-42PHW6
SU-BOARD (1 of 2) Schematic Diagram

14.53. SU-Board (2 of 2) Schematic Diagram

⚠ SU-BOARD TNPA2909 (2/2)

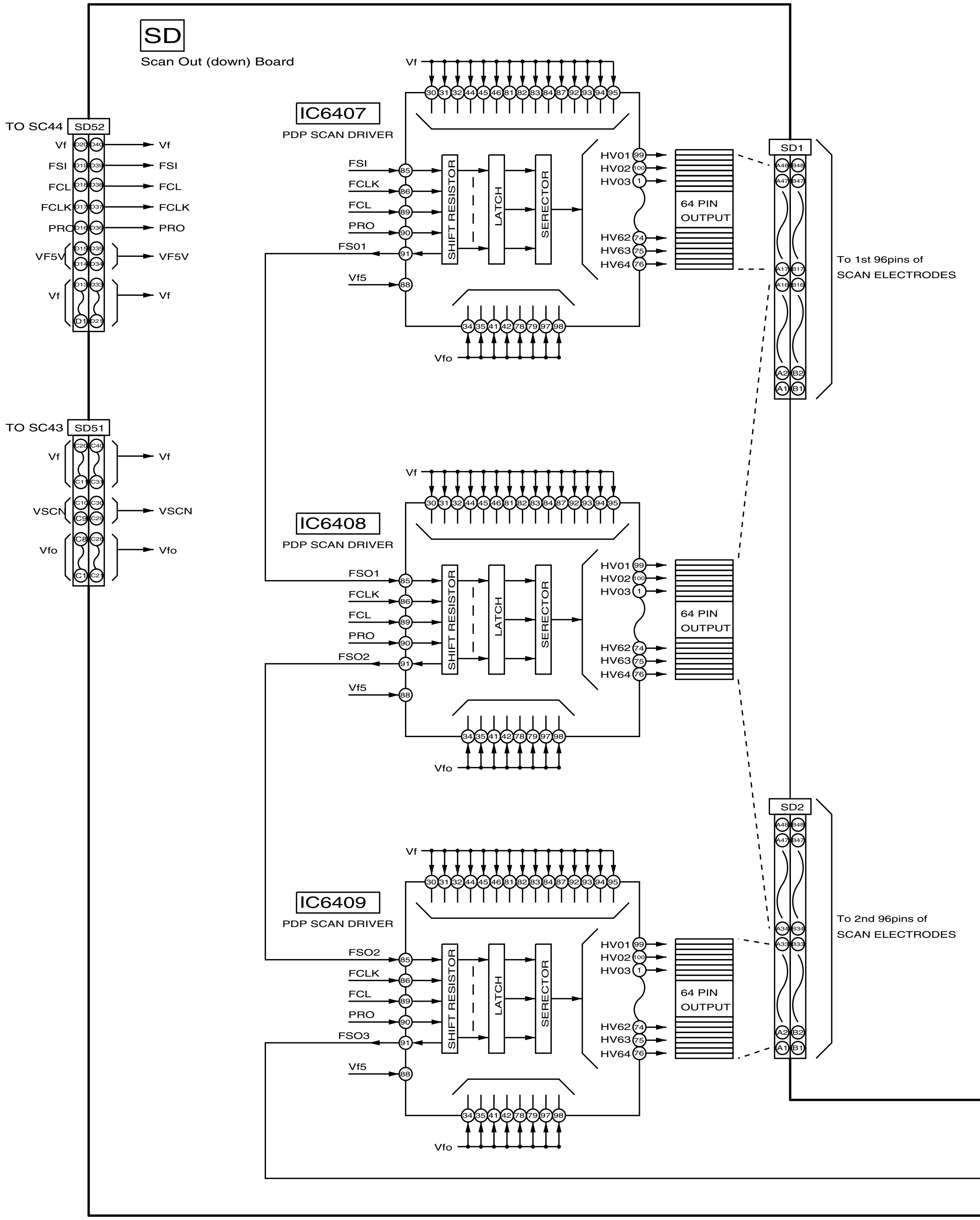

TO PANEL DRIVER
SU2
SIDE
IC6403
C0HBC0000006
IC6402
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
R6415
220k
R6414
10k
C6403
16V
1u
R6413
10k
R6403
220
R6412
10k
Vf5
D6404
B0ECHP000001
AA_SO2
AA_CLK
AA_CL
AA_PRO
AA_SO3
R6402
220
5V
C6402
16V
1u
AA_SO1
AA_CLK
AA_CL
AA_PRO
AA_SO2
C6420
250V
C6419
250V
D6401
MAZ80560HL
C6408
50V
1000p
SU51
TO
SC-BOARD
(SC41)
VF5V
VF5V
PRO
FCLK
FCL
1
2
3
4
5
6


UP
TO PANEL DRIVER
SU2
SU1
SIDE
TERM
IC6401
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
6402
BC0000006
ESISTOR
D6402
MAZ80560HL
C6407
50V
2200p
C6401
16V
1u
R6411
10k
R6401
220
AA_SI
AA_CLK
AA_CL
AA_PRO
AA_SO1
AA_SO2
A1
A2
A3
A4
A5
A21
A22
A23
A24
PRO
FCLK
FCL
FSI

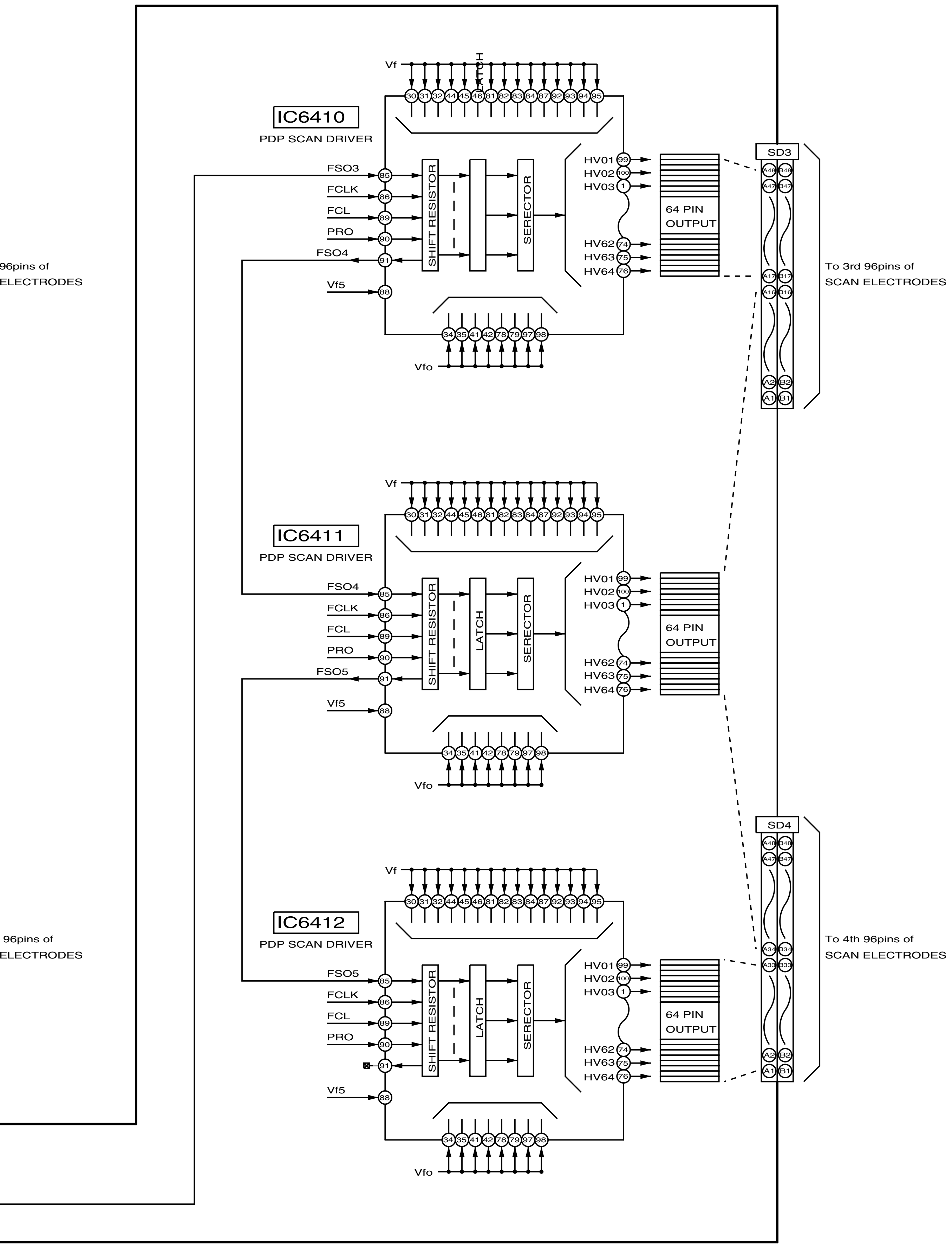
TH-42PHD6/TH-42PHW6
SU-BOARD (2 of 2) Schematic Diagram

12	13	14	15

14.54. SD-Board Block Diagram

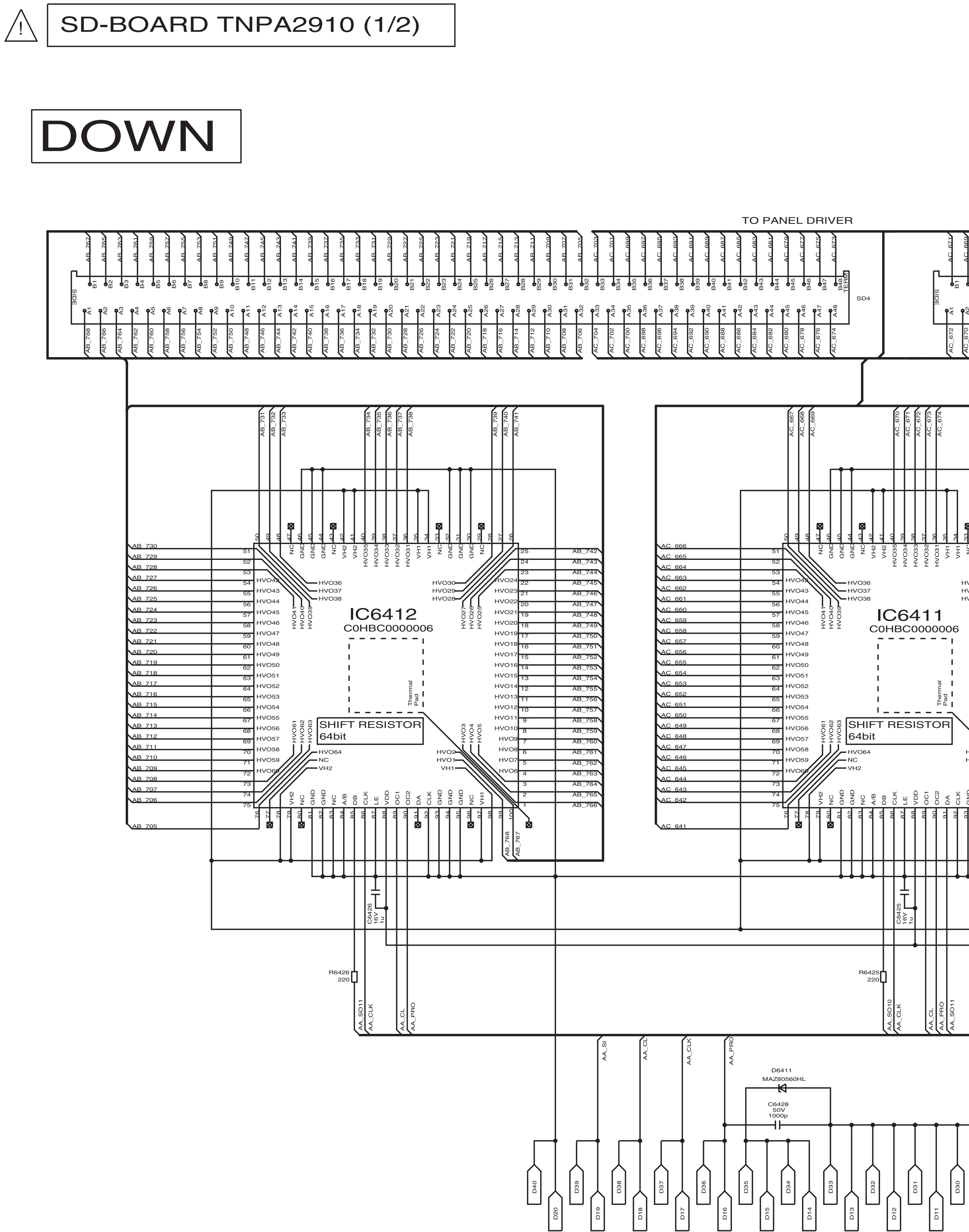

SD
Scan Out (down) Board
TO SC44
SD52
Vf
FSI
FCL
FCLK
PRO
VF5V
Vf
D20
D40
D19
D39
D18
D38
D17
D37
D16
D36
D15
D35
D14
D34
D13
D33
D1
D21
TO SC43
SD51
Vf
VSCN
Vfo
C20
C40
C11
C31
C10
C30
C9
C29
C8
C28
C1
C21
IC6407
PDP SCAN DRIVER
IC6408
PDP SCAN DRIVER
IC6409
PDP SCAN DRIVER
Vf
30 31 32 44 45 46 81 82 83 84 87 92 93 94 95
FSI
FSO1
FSO2
FSO3
FCLK
FCL
PRO
Vf5
85
86
89
90
91
88
SHIFT RESISTOR
LATCH
SERECTOR
HV01
HV02
HV03
HV62
HV63
HV64
99
100
1
74
75
76
64 PIN
OUTPUT
34 35 41 42 78 79 97 98
Vfo
SD1
A48
B48
A47
B47
A17
B17
A16
B16
A2
B2
A1
B1
To 1st 96pins of
SCAN ELECTRODES
SD2
A34
B34
A33
B33
To 2nd 96pins of
SCAN ELECTRODES

TH-42PHD6/TH-42PHW6
SD-BOARD Block Diagram

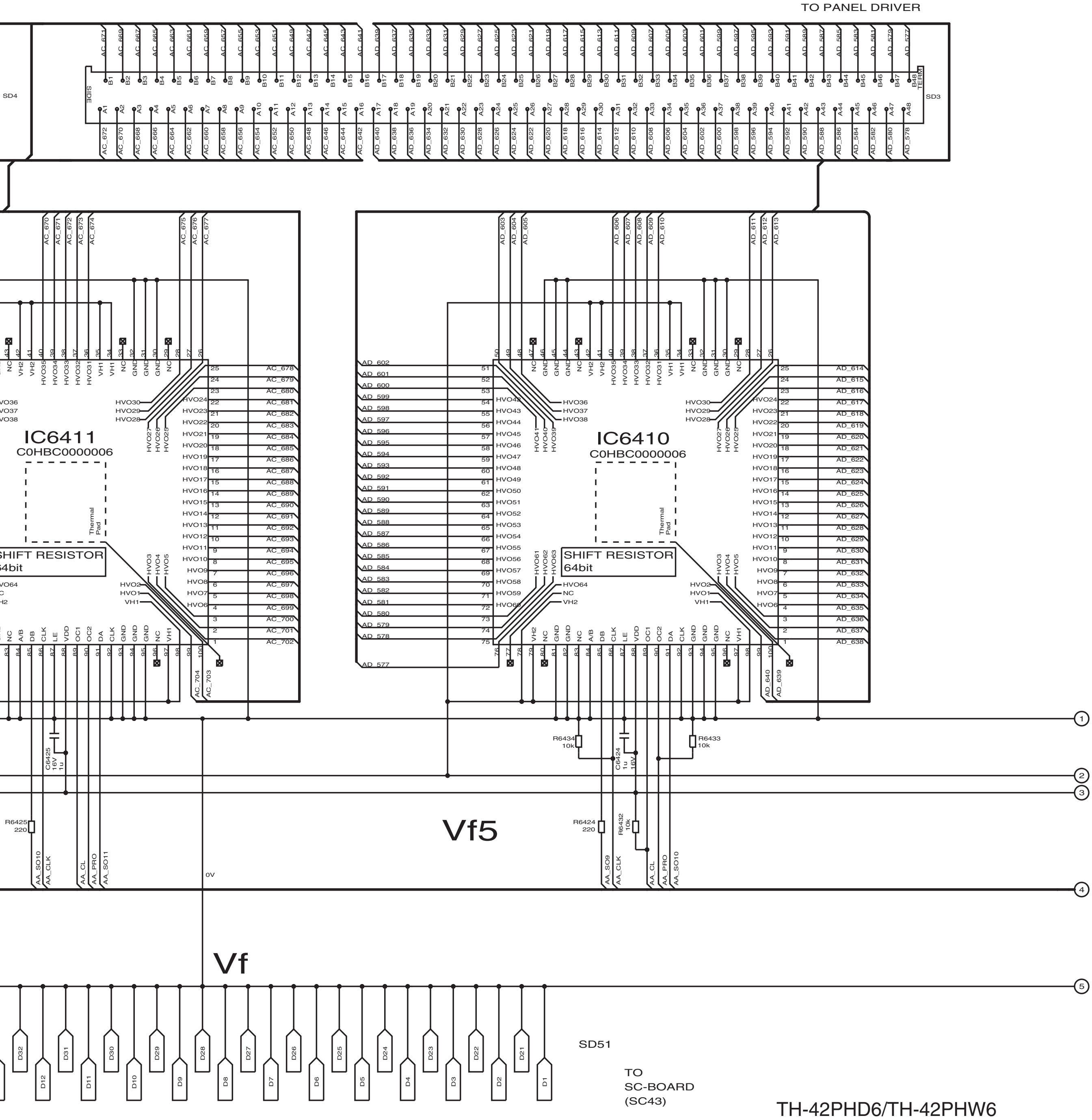

IC6410
PDP SCAN DRIVER
IC6411
PDP SCAN DRIVER
IC6412
PDP SCAN DRIVER
Vf
Vfo
Vf5
FSO3
FSO4
FSO5
FCLK
FCL
PRO
LATCH
SHIFT RESISTOR
SERECTOR
HV01
HV02
HV03
HV62
HV63
HV64
64 PIN OUTPUT
SD3
SD4
A48
B48
A47
B47
A17
B17
A16
B16
A34
B34
A33
B33
A2
B2
A1
B1
To 3rd 96pins of SCAN ELECTRODES
To 4th 96pins of SCAN ELECTRODES
96pins of
ELECTRODES
96pins of
ELECTRODES

TH-42PHD6/TH-42PHW6
SD-BOARD Block Diagram

14.55. SD-Board (1 of 2) Schematic Diagram


SD-BOARD TNPA2910 (1/2)
DOWN
TO PANEL DRIVER
SD4
SIDE
IC6412
C0HBC0000006
IC6411
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
C6426
16V
1u
C6425
16V
1u
R6426
220
R6425
220
AA_SO11
AA_CLK
AA_CL
AA_PRO
AA_SO10
AA_SI
D6411
MAZ80560HL
C6428
50V
1000p
D40
D39
D38
D37
D36
D35
D34
D33
D32
D31
D30
D20
D19
D18
D17
D16
D15
D14
D13
D12
D11

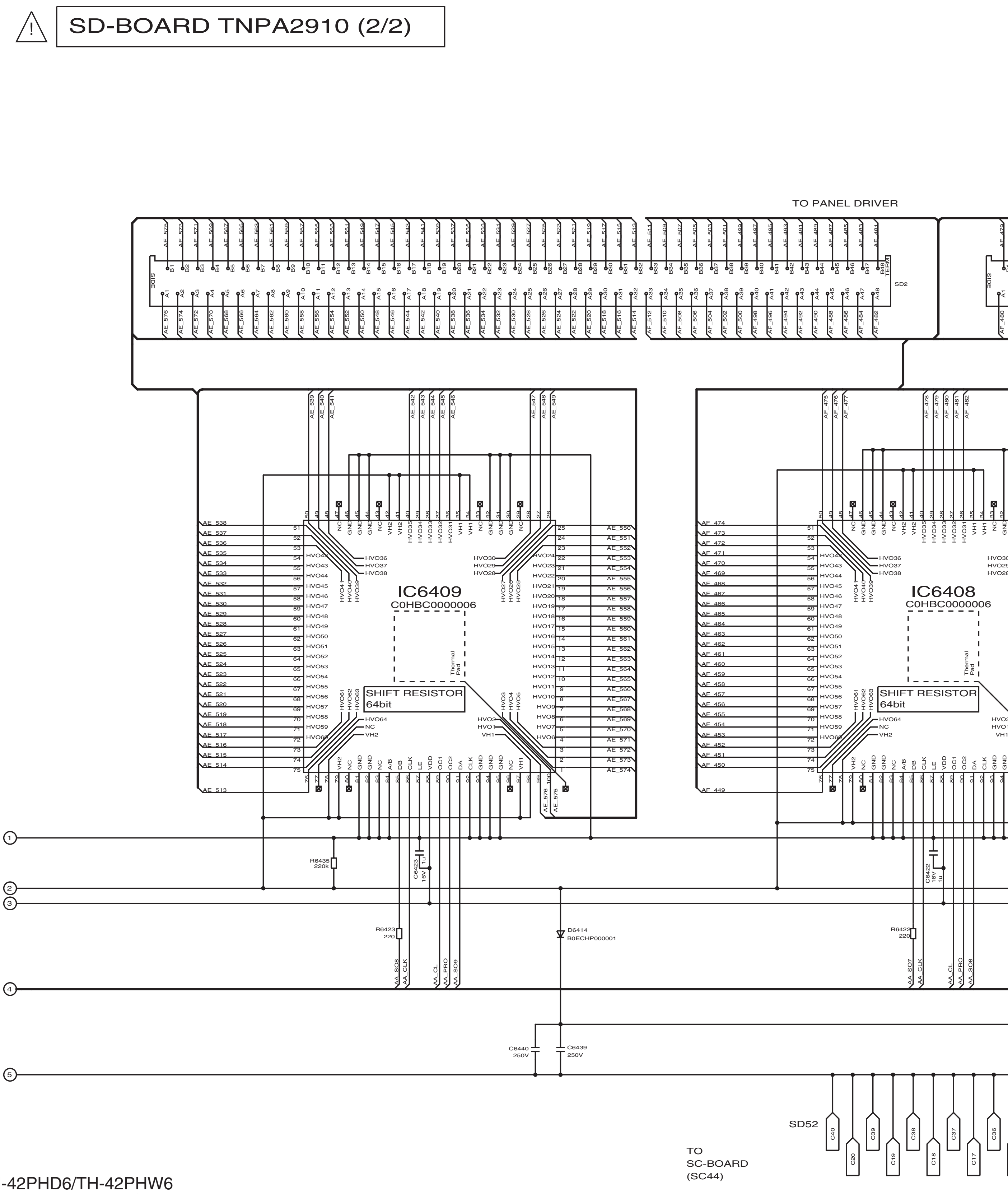
TH-42PHD6/TH-42PHW6
SD-BOARD (1 of 2) Schematic Diagram


TO PANEL DRIVER
SD4
SD3
SIDE
TERM
IC6411
C0HBC0000006
IC6410
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
R6425 220
C6425 16V 1u
R6434 10k
R6433 10k
C6424 1u 16V
R6424 220
R6432 10k
AA_SO10
AA_CLK
AA_CL
AA_PRO
AA_SO11
AA_SO9
0V
Vf5
Vf
1
2
3
4
5
SD51
TO
SC-BOARD
(SC43)

TH-42PHD6/TH-42PHW6
SD-BOARD (1 of 2) Schematic Diagram

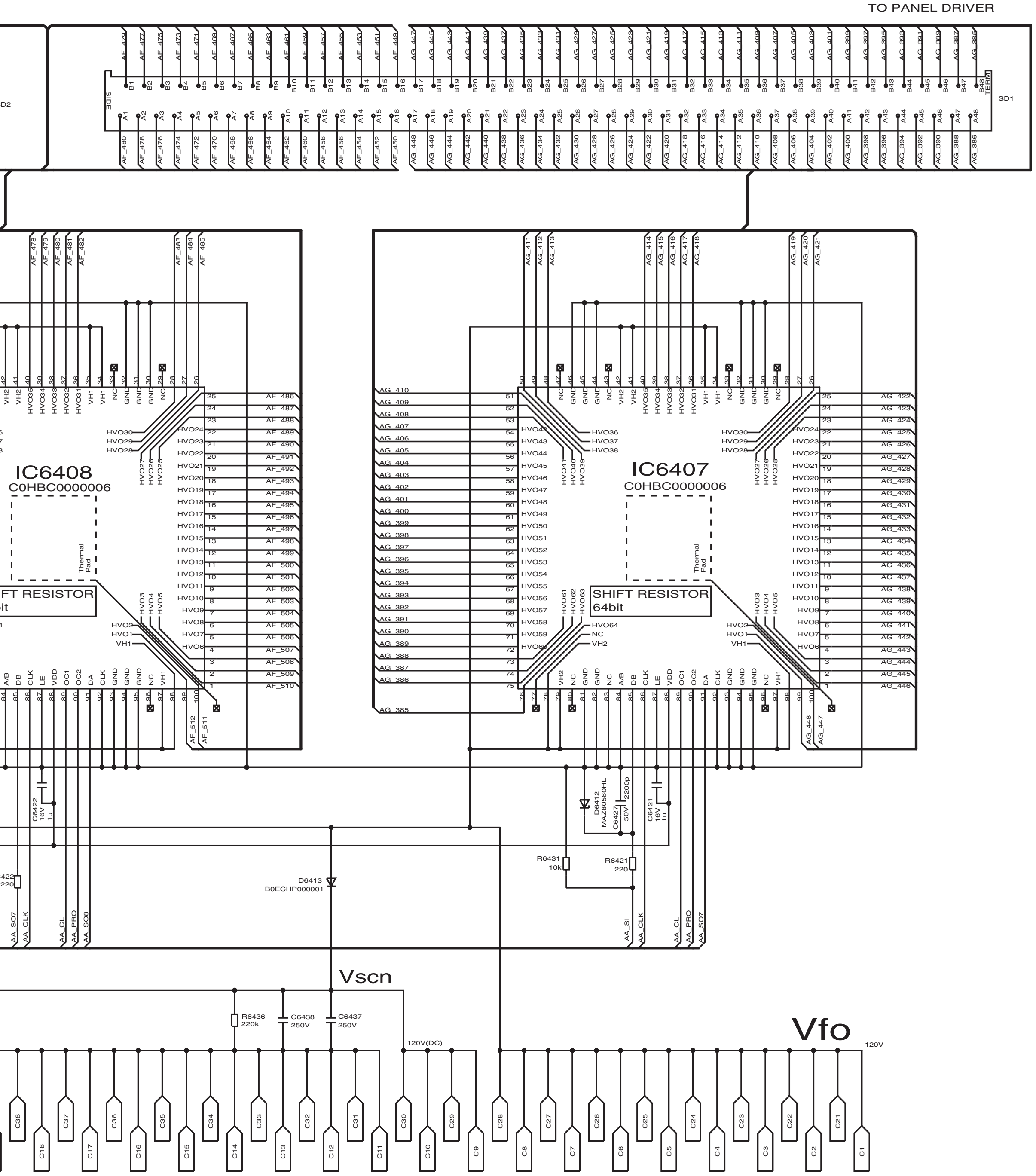
5 6 7 8

14.56. SD-Board (2 of 2) Schematic Diagram


SD-BOARD TNPA2910 (2/2)
TO PANEL DRIVER
SD2
IC6409
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
IC6408
C0HBC0000006
R6435
220k
C6423
1u
16V
R6423
220
D6414
B0ECHP000001
C6440
250V
C6439
250V
R6422
220
C6422
1u
16V
SD52
TO
SC-BOARD
(SC44)
1
2
3
4
5

TH-42PHD6/TH-42PHW6
SD-BOARD (2 of 2) Schematic Diagram

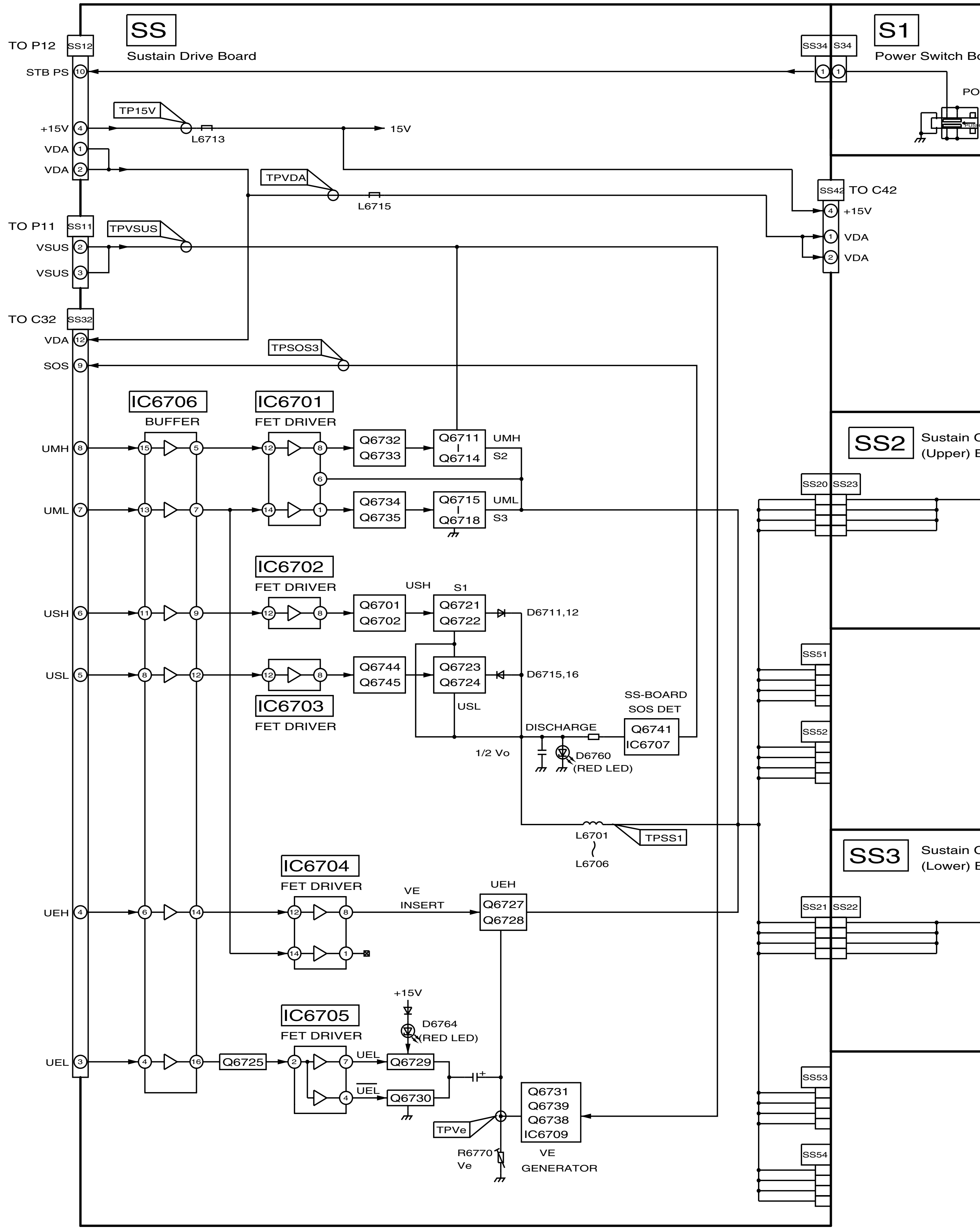
8 9 10 11 12


TO PANEL DRIVER
SD1
IC6408
C0HBC0000006
IC6407
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
Vscn
Vfo
120V(DC)
120V
D6413
B0ECHP000001
R6436
220k
C6438
250V
C6437
250V
D6412
MAZ80560HL
C6427
50V
2200p
C6421
16V
1u
C6422
16V
1u
R6431
10k
R6421
220
AA_SI
AA_CLK
AA_CL
AA_PRO
AA_SO7
AA_SO8

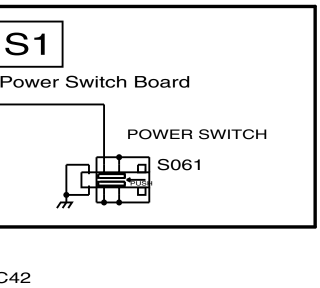
TH-42PHD6/TH-42PHW6 SD-BOARD (2 of 2) Schematic Diagram

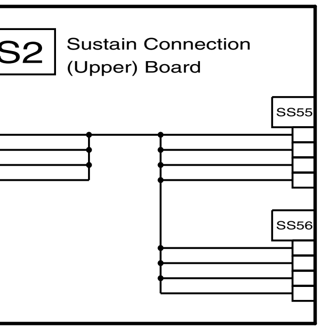
12	13	14	15

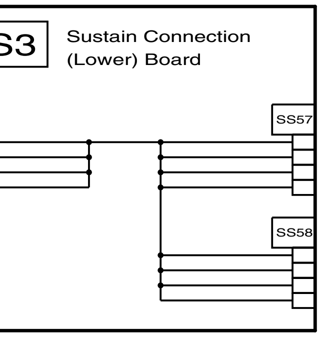
14.57. S1-Board, SS-Board, SS2-Board and SS3-Board Block Diagram


SS
Sustain Drive Board
S1
Power Switch Bo
SS2
Sustain C
(Upper) B
SS3
Sustain C
(Lower) B
TO P12
SS12
STB PS
+15V
VDA
VDA
TO P11
SS11
VSUS
VSUS
TO C32
SS32
VDA
SOS
UMH
UML
USH
USL
UEH
UEL
TP15V
L6713
15V
TPVDA
L6715
TPVSUS
TPSOS3
SS34
SS34
PO
SS42
TO C42
+15V
VDA
VDA
IC6706
BUFFER
IC6701
FET DRIVER
Q6732
Q6733
Q6711
Q6714
UMH
S2
Q6734
Q6735
Q6715
Q6718
UML
S3
IC6702
FET DRIVER
USH
S1
Q6701
Q6702
Q6721
Q6722
D6711,12
Q6744
Q6745
Q6723
Q6724
D6715,16
USL
IC6703
FET DRIVER
SS-BOARD
SOS DET
DISCHARGE
Q6741
IC6707
1/2 Vo
D6760
(RED LED)
L6701
L6706
TPSS1
IC6704
FET DRIVER
VE
INSERT
UEH
Q6727
Q6728
+15V
D6764
(RED LED)
IC6705
FET DRIVER
Q6725
UEL
Q6729
UEL
Q6730
Q6731
Q6739
Q6738
IC6709
TPVe
R6770
Ve
VE
GENERATOR
SS20
SS23
SS51
SS52
SS21
SS22
SS53
SS54

TH-42PHD6/TH-42PHW6
S1-BOARD, SS-BOARD, SS2-BOARD and SS3-BOARD Block Diagram

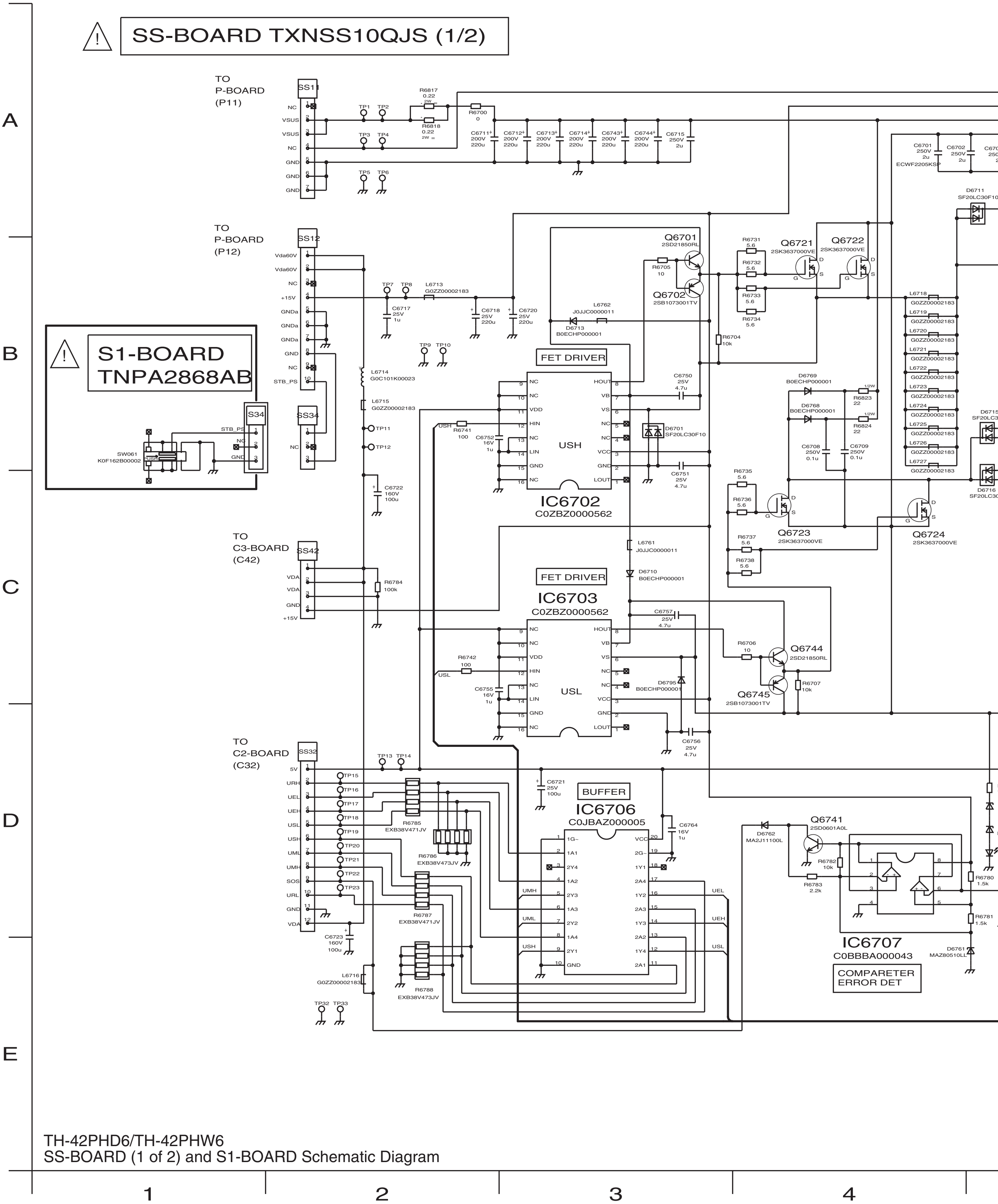

S1
Power Switch Board
POWER SWITCH
S061
PUSH
C42


S2
Sustain Connection
(Upper) Board
SS55
SS56

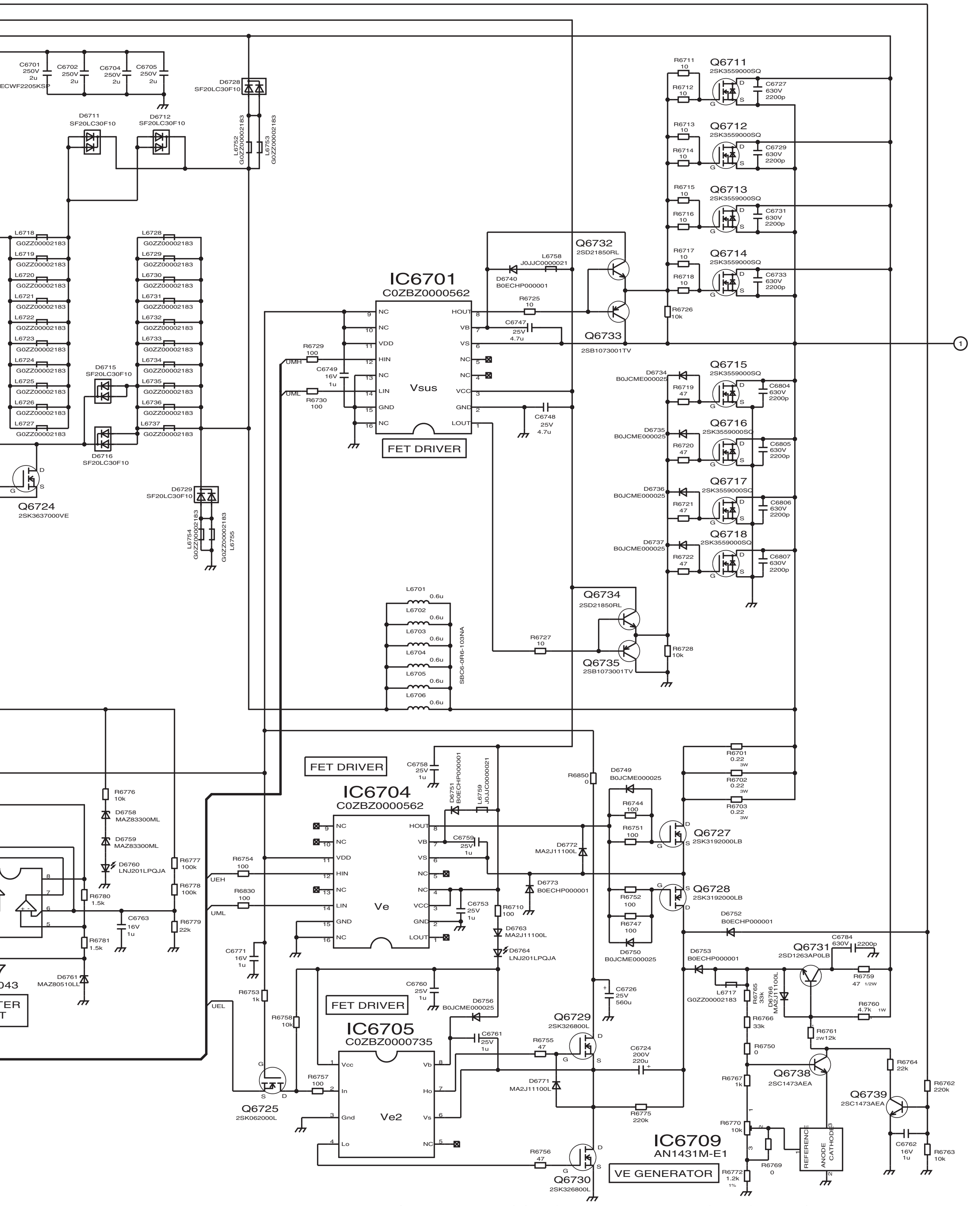

S3
Sustain Connection
(Lower) Board
SS57
SS58

TH-42PHD6/TH-42PHW6
S1-BOARD, SS-BOARD, SS2-BOARD and SS3-BOARD Block Diagram

14.58. SS-Board (1 of 2) Schematic Diagram


SS-BOARD TXNSS10QJS (1/2)
TO P-BOARD (P11)
SS11
NC
VSUS
VSUS
NC
GND
GND
GND
TP1
TP2
TP3
TP4
TP5
TP6
R6817 0.22 2W
R6818 0.22 2W
R6700 0
C6711 200V 220u
C6712 200V 220u
C6713 200V 220u
C6714 200V 220u
C6743 200V 220u
C6744 200V 220u
C6715 250V 2u
C6701 250V 2u
C6702 250V 2u
ECWF2205KSP
D6711 SF20LC30F10
TO P-BOARD (P12)
SS12
Vda60V
Vda60V
NC
+15V
GNDa
GNDa
GNDa
GND
NC
STB_PS
TP7
TP8
L6713 G0ZZ00002183
C6717 25V 1u
C6718 25V 220u
C6720 25V 220u
L6762 J0JJC0000011
D6713 B0ECHP000001
Q6701 2SD21850RL
Q6702 2SB1073001TV
R6705 10
R6704 10k
R6731 5.6
R6732 5.6
R6733 5.6
R6734 5.6
Q6721 2SK3637000VE
Q6722 2SK3637000VE
L6718 G0ZZ00002183
L6719 G0ZZ00002183
L6720 G0ZZ00002183
L6721 G0ZZ00002183
L6722 G0ZZ00002183
L6723 G0ZZ00002183
L6724 G0ZZ00002183
L6725 G0ZZ00002183
L6726 G0ZZ00002183
L6727 G0ZZ00002183
D6715 SF20LC3
D6716 SF20LC30
S1-BOARD TNPA2868AB
S34
STB_PS
NC
GND
SW061 K0F162B00002
SS34
NC
TP9
TP10
L6714 G0C101K00023
L6715 G0ZZ00002183
TP11
TP12
FET DRIVER
USH
R6741 100
C6752 16V 1u
NC
NC
VDD
HIN
NC
LIN
GND
NC
HOUT
VB
VS
NC
NC
VCC
GND
LOUT
C6750 25V 4.7u
D6701 SF20LC30F10
C6751 25V 4.7u
IC6702 C0ZBZ0000562
D6769 B0ECHP000001
D6768 B0ECHP000001
R6823 22 1/2W
R6824 22 1/2W
C6708 250V 0.1u
C6709 250V 0.1u
R6735 5.6
R6736 5.6
R6737 5.6
R6738 5.6
Q6723 2SK3637000VE
Q6724 2SK3637000VE
C6722 160V 100u
TO C3-BOARD (C42)
SS42
VDA
VDA
GND
+15V
R6784 100k
L6761 J0JJC0000011
D6710 B0ECHP000001
FET DRIVER
IC6703 C0ZBZ0000562
C6757 25V 4.7u
R6742 100
USL
C6755 16V 1u
R6706 10
Q6744 2SD21850RL
Q6745 2SB1073001TV
R6707 10k
D6795 B0ECHP000001
C6756 25V 4.7u
TO C2-BOARD (C32)
SS32
5V
URH
UEL
UEH
USL
USH
UML
UMH
SOS
URL
GND
VDA
TP13
TP14
TP15
TP16
TP17
TP18
TP19
TP20
TP21
TP22
TP23
R6785 EXB38V471JV
R6786 EXB38V473JV
R6787 EXB38V471JV
R6788 EXB38V473JV
C6723 160V 100u
L6716 G0ZZ00002183
TP32
TP33
C6721 25V 100u
BUFFER
IC6706 C0JBAZ000005
C6764 16V 1u
1G−
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2G−
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
UMH
UML
USH
UEL
UEH
USL
D6762 MA2J11100L
Q6741 2SD0601A0L
R6782 10k
R6783 2.2k
R6780 1.5k
R6781 1.5k
D6761 MAZ80510LL
IC6707 C0BBBA000043
COMPARETER ERROR DET
A
B
C
D
E
1
2
3
4

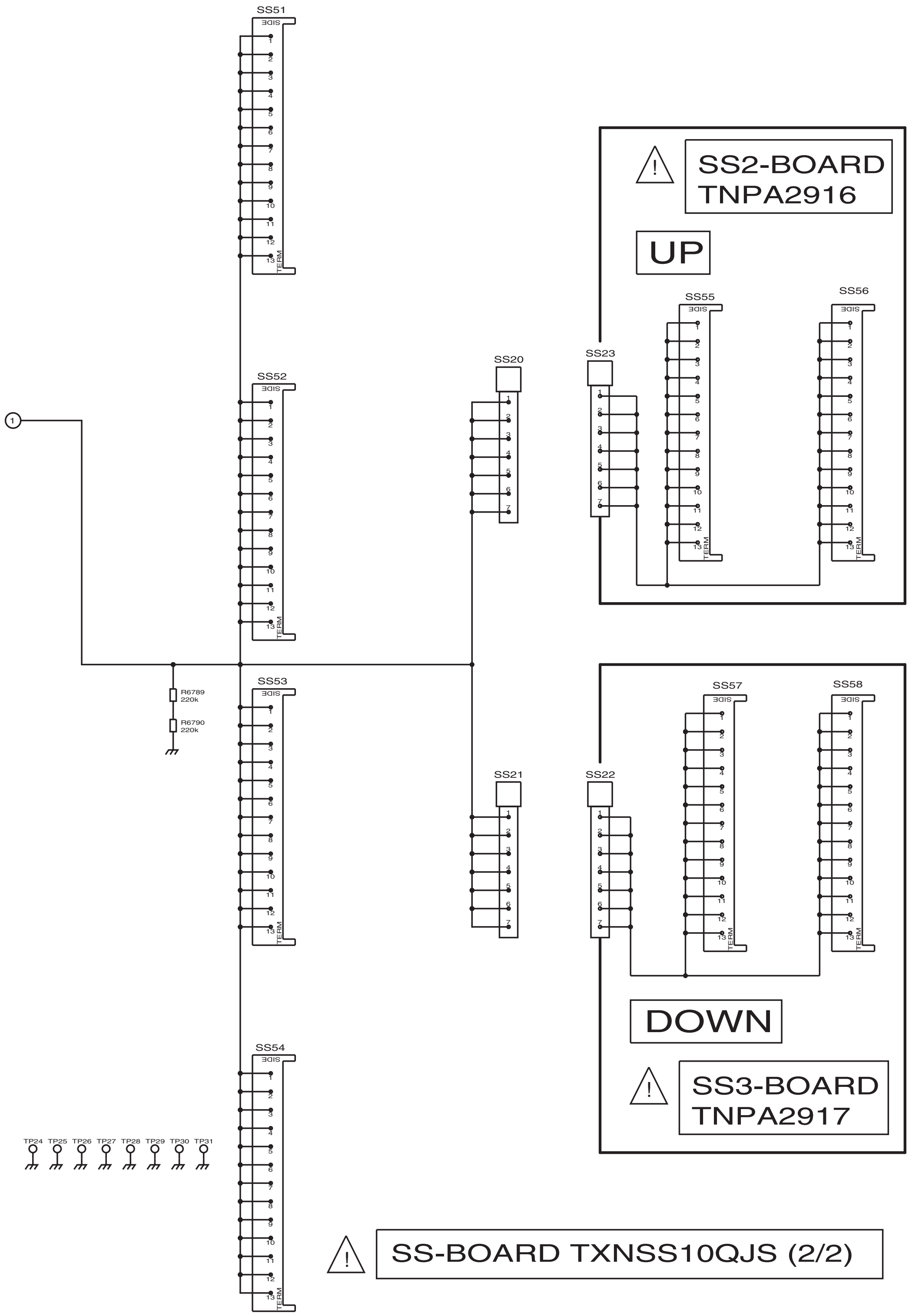
TH-42PHD6/TH-42PHW6
SS-BOARD (1 of 2) and S1-BOARD Schematic Diagram


C6701 250V 2u ECWF2205KSP
C6702 250V 2u
C6704 250V 2u
C6705 250V 2u
D6728 SF20LC30F10
D6711 SF20LC30F10
D6712 SF20LC30F10
L6752 G0ZZ00002183
L6753 G0ZZ00002183
L6718 G0ZZ00002183
L6719 G0ZZ00002183
L6720 G0ZZ00002183
L6721 G0ZZ00002183
L6722 G0ZZ00002183
L6723 G0ZZ00002183
L6724 G0ZZ00002183
L6725 G0ZZ00002183
L6726 G0ZZ00002183
L6727 G0ZZ00002183
L6728 G0ZZ00002183
L6729 G0ZZ00002183
L6730 G0ZZ00002183
L6731 G0ZZ00002183
L6732 G0ZZ00002183
L6733 G0ZZ00002183
L6734 G0ZZ00002183
L6735 G0ZZ00002183
L6736 G0ZZ00002183
L6737 G0ZZ00002183
D6715 SF20LC30F10
D6716 SF20LC30F10
Q6724 2SK3637000VE
D6729 SF20LC30F10
L6754 G0ZZ00002183
L6755 G0ZZ00002183
IC6701 C0ZBZ0000562
Vsus
FET DRIVER
NC HOUT VB VS NC NC VCC GND LOUT
NC NC VDD HIN NC LIN GND NC
R6729 100
R6730 100
C6749 16V 1u
UMH
UML
D6740 B0ECHP000001
L6758 J0JJC0000021
R6725 10
C6747 25V 4.7u
C6748 25V 4.7u
Q6732 2SD21850RL
Q6733 2SB1073001TV
Q6711 2SK3559000SQ
Q6712 2SK3559000SQ
Q6713 2SK3559000SQ
Q6714 2SK3559000SQ
Q6715 2SK3559000SQ
Q6716 2SK3559000SQ
Q6717 2SK3559000SQ
Q6718 2SK3559000SQ
R6711 10
R6712 10
R6713 10
R6714 10
R6715 10
R6716 10
R6717 10
R6718 10
R6726 10k
C6727 630V 2200p
C6729 630V 2200p
C6731 630V 2200p
C6733 630V 2200p
D6734 B0JCME000025
D6735 B0JCME000025
D6736 B0JCME000025
D6737 B0JCME000025
R6719 47
R6720 47
R6721 47
R6722 47
C6804 630V 2200p
C6805 630V 2200p
C6806 630V 2200p
C6807 630V 2200p
①
L6701 0.6u
L6702 0.6u
L6703 0.6u
L6704 0.6u
L6705 0.6u
L6706 0.6u
SBC6-0R6-103NA
Q6734 2SD21850RL
Q6735 2SB1073001TV
R6727 10
R6728 10k
R6776 10k
D6758 MAZ83300ML
D6759 MAZ83300ML
D6760 LNJ201LPQJA
R6777 100k
R6778 100k
R6779 22k
R6780 1.5k
R6781 1.5k
C6763 16V 1u
D6761 MAZ80510LL
043
TER
T
FET DRIVER
IC6704 C0ZBZ0000562
Ve
C6758 25V 1u
D6751 B0ECHP000001
L6759 J0JJC0000021
C6759 25V 1u
C6753 25V 1u
R6710 100
D6763 MA2J11100L
D6764 LNJ201LPQJA
D6772 MA2J11100L
D6773 B0ECHP000001
R6754 100
R6830 100
UEH
UML
C6771 16V 1u
R6753 1k
UEL
R6758 10k
R6850 0
D6749 B0JCME000025
R6744 100
R6751 100
R6752 100
R6747 100
D6750 B0JCME000025
Q6727 2SK3192000LB
Q6728 2SK3192000LB
R6701 0.22 3W
R6702 0.22 3W
R6703 0.22 3W
D6752 B0ECHP000001
FET DRIVER
IC6705 C0ZBZ0000735
Ve2
Vcc In Gnd Lo Vb Ho Vs NC
C6760 25V 1u
D6756 B0JCME000025
C6761 25V 1u
R6757 100
Q6725 2SK062000L
R6755 47
R6756 47
D6771 MA2J11100L
Q6729 2SK326800L
Q6730 2SK326800L
C6726 25V 560u
C6724 200V 220u
R6775 220k
IC6709 AN1431M-E1
VE GENERATOR
REFERENCE ANODE CATHODE
D6753 B0ECHP000001
L6717 G0ZZ00002183
R6765 33k
D6766 MA2J11100L
R6766 33k
R6750 0
R6767 1k
R6770 10k
R6769 0
R6772 1.2k 1%
Q6731 2SD1263AP0LB
C6784 630V 2200p
R6759 47 1/2W
R6760 4.7k 1W
R6761 2W12k
Q6738 2SC1473AEA
Q6739 2SC1473AEA
R6764 22k
R6762 220k
R6763 10k
C6762 16V 1u

TH-42PHD6/TH-42PHW6 SS-BOARD (1 of 2) and S1-BOARD Schematic Diagram

5 6 7 8

14.59. SS-Board (2 of 2) Schematic Diagram

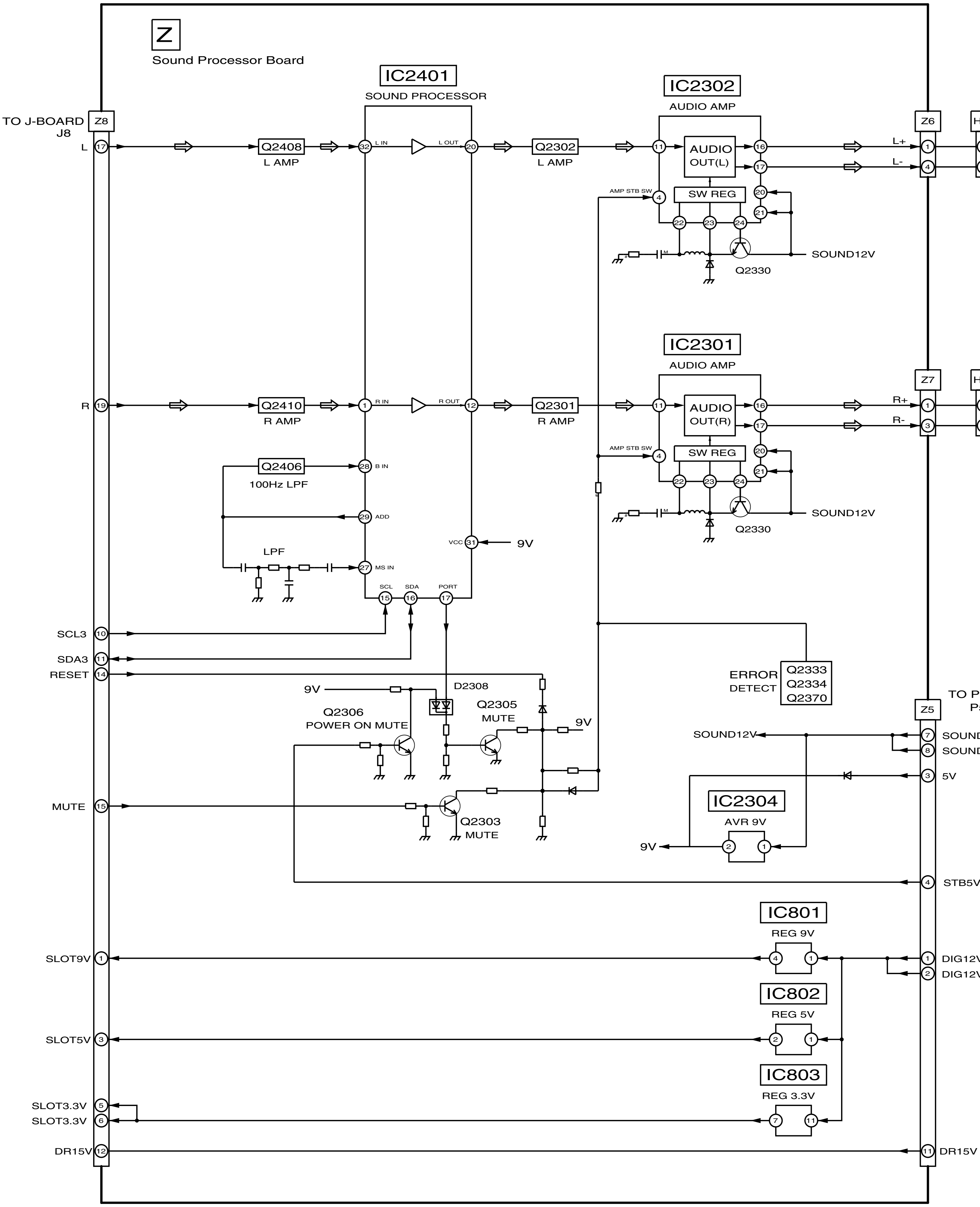

SS51
SIDE
TERM
SS52
SS53
SS54
1
R6789
220k
R6790
220k
TP24 TP25 TP26 TP27 TP28 TP29 TP30 TP31
SS20
SS21
SS22
SS23
SS2-BOARD
TNPA2916
UP
SS55
SS56
SS57
SS58
DOWN
SS3-BOARD
TNPA2917
SS-BOARD TXNSS10QJS (2/2)

TH-42PHD6/TH-42PHW6
SS-BOARD (2 of 2), SS2-BOARD, and SS3-BOARD Schematic Diagram

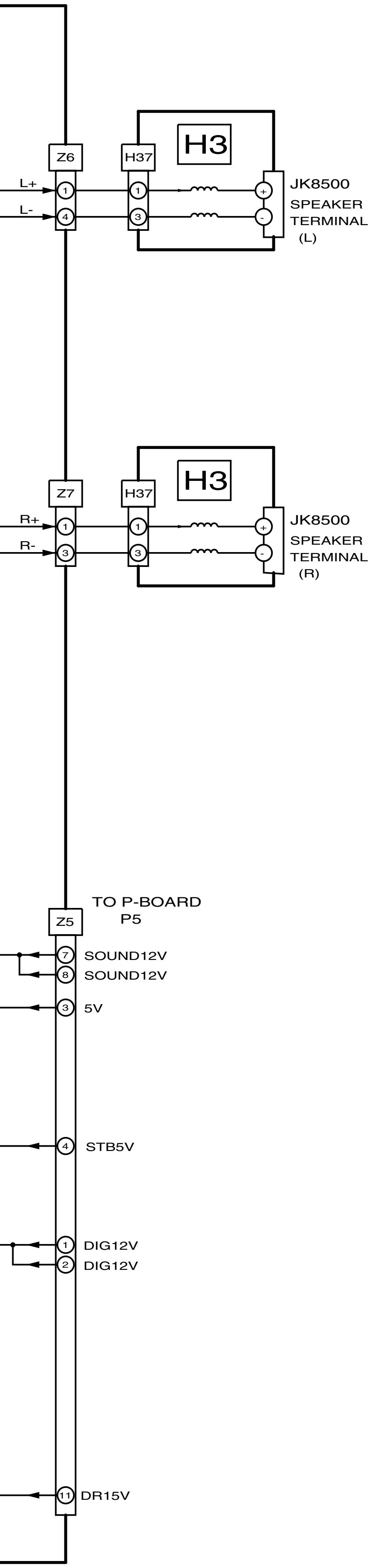
TH-42PHD6/TH-42PHW6
SS-BOARD (2 of 2), SS2-BOARD, and SS3-BOARD Schematic Diagram

12 13 14 15

14.60. Z-Board and H3-Board Block Diagram

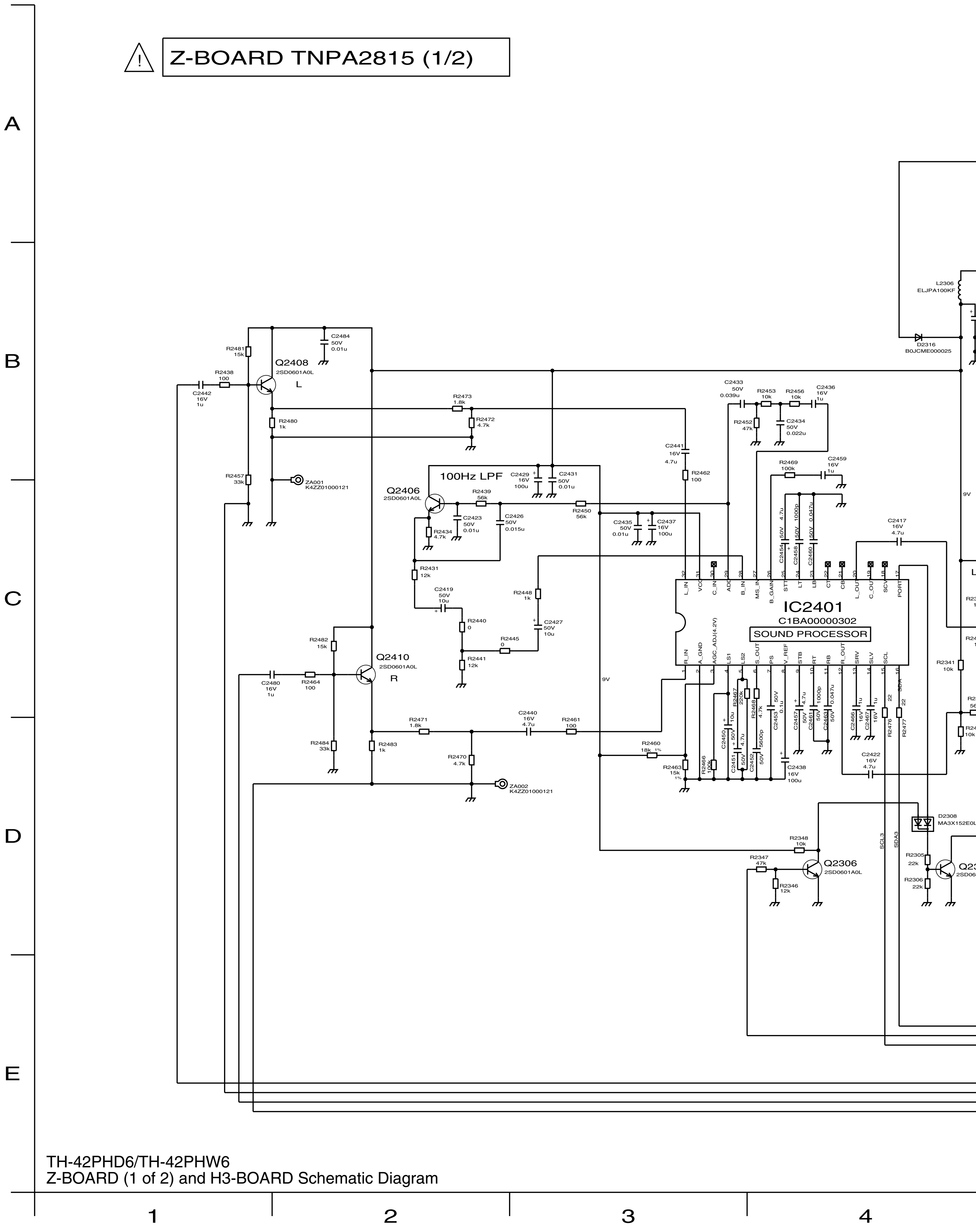

Z
Sound Processor Board
TO J-BOARD J8
Z8
L
R
SCL3
SDA3
RESET
MUTE
SLOT9V
SLOT5V
SLOT3.3V
SLOT3.3V
DR15V
Q2408
L AMP
Q2410
R AMP
Q2406
100Hz LPF
LPF
IC2401
SOUND PROCESSOR
L IN
L OUT
R IN
R OUT
B IN
ADD
MS IN
VCC
SCL
SDA
PORT
9V
Q2302
L AMP
Q2301
R AMP
IC2302
AUDIO AMP
IC2301
AUDIO AMP
AUDIO OUT(L)
AUDIO OUT(R)
SW REG
AMP STB SW
Q2330
SOUND12V
Z6
L+
L-
Z7
R+
R-
D2308
Q2306
POWER ON MUTE
Q2305
MUTE
Q2303
MUTE
ERROR DETECT
Q2333
Q2334
Q2370
TO P
Z5
SOUND12V
5V
IC2304
AVR 9V
9V
STB5V
IC801
REG 9V
IC802
REG 5V
IC803
REG 3.3V
DIG12V
DIG12V
DR15V

TH-42PHD6/TH-42PHW6
Z-BOARD and H3-BOARD Block Diagram

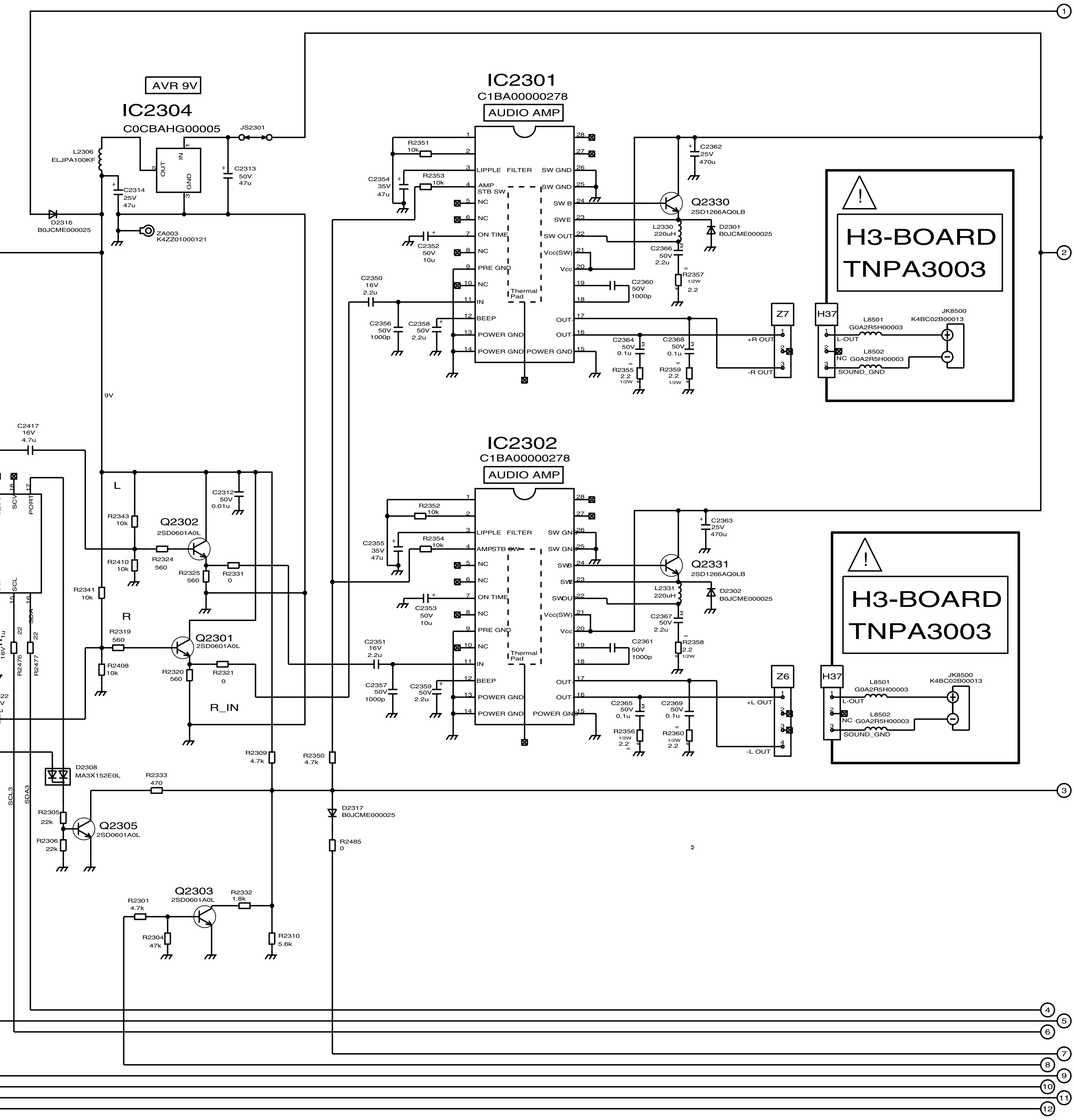

Z6
H37
H3
L+
L-
1
4
1
3
+
-
JK8500
SPEAKER
TERMINAL
(L)
Z7
H37
H3
R+
R-
1
3
1
3
+
-
JK8500
SPEAKER
TERMINAL
(R)
TO P-BOARD
P5
Z5
7 SOUND12V
8 SOUND12V
3 5V
4 STB5V
1 DIG12V
2 DIG12V
11 DR15V

TH-42PHD6/TH-42PHW6
Z-BOARD and H3-BOARD Block Diagram

14.61. Z-Board (1 of 2) Schematic Diagram


Z-BOARD TNPA2815 (1/2)
A
B
C
D
E
1
2
3
4
Q2408
2SD0601A0L
L
R2481
15k
R2438
100
C2442
16V
1u
C2484
50V
0.01u
R2480
1k
R2457
33k
ZA001
K4ZZ01000121
R2473
1.8k
R2472
4.7k
100Hz LPF
Q2406
2SD0601A0L
R2439
56k
C2429
16V
100u
C2431
50V
0.01u
C2423
50V
0.01u
C2426
50V
0.015u
R2434
4.7k
R2450
56k
R2431
12k
C2419
50V
10u
R2440
0
R2448
1k
C2427
50V
10u
R2445
0
R2441
12k
R2482
15k
Q2410
2SD0601A0L
R
C2480
16V
1u
R2464
100
R2484
33k
R2483
1k
R2471
1.8k
R2470
4.7k
C2440
16V
4.7u
R2461
100
ZA002
K4ZZ01000121
9V
C2441
16V
4.7u
R2462
100
C2435
50V
0.01u
C2437
16V
100u
R2460
18k
R2463
15k
R2466
10k
C2433
50V
0.039u
R2453
10k
R2456
10k
C2436
16V
1u
R2452
47k
C2434
50V
0.022u
R2469
100k
C2459
16V
1u
C2454
C2458
C2460
C2417
16V
4.7u
L_IN
VCC
C_IN
ADJ
B_IN
MS_IN
B_GAIN
STT
LT
LB
CT
CB
L_OUT
C_OUT
SCV
PORT
IC2401
C1BA00000302
SOUND PROCESSOR
R_IN
A_GND
AGC_ADJ(4.2V)
LS1
LS2
S_OUT
PS
V_REF
STB
RT
RB
R_OUT
SRV
SLV
SCL
SDA
C2450
C2451
R2467
220k
R2468
4.7k
C2452
5600p
C2453
C2457
C2461
C2463
C2438
16V
100u
C2466
C2467
R2476
R2477
C2422
16V
4.7u
R2341
10k
L2306
ELJPA100KF
D2316
B0JCME000025
D2308
MA3X152E0L
R2348
10k
R2347
47k
R2346
12k
Q2306
2SD0601A0L
R2305
22k
R2306
22k
SCL3
SDA3

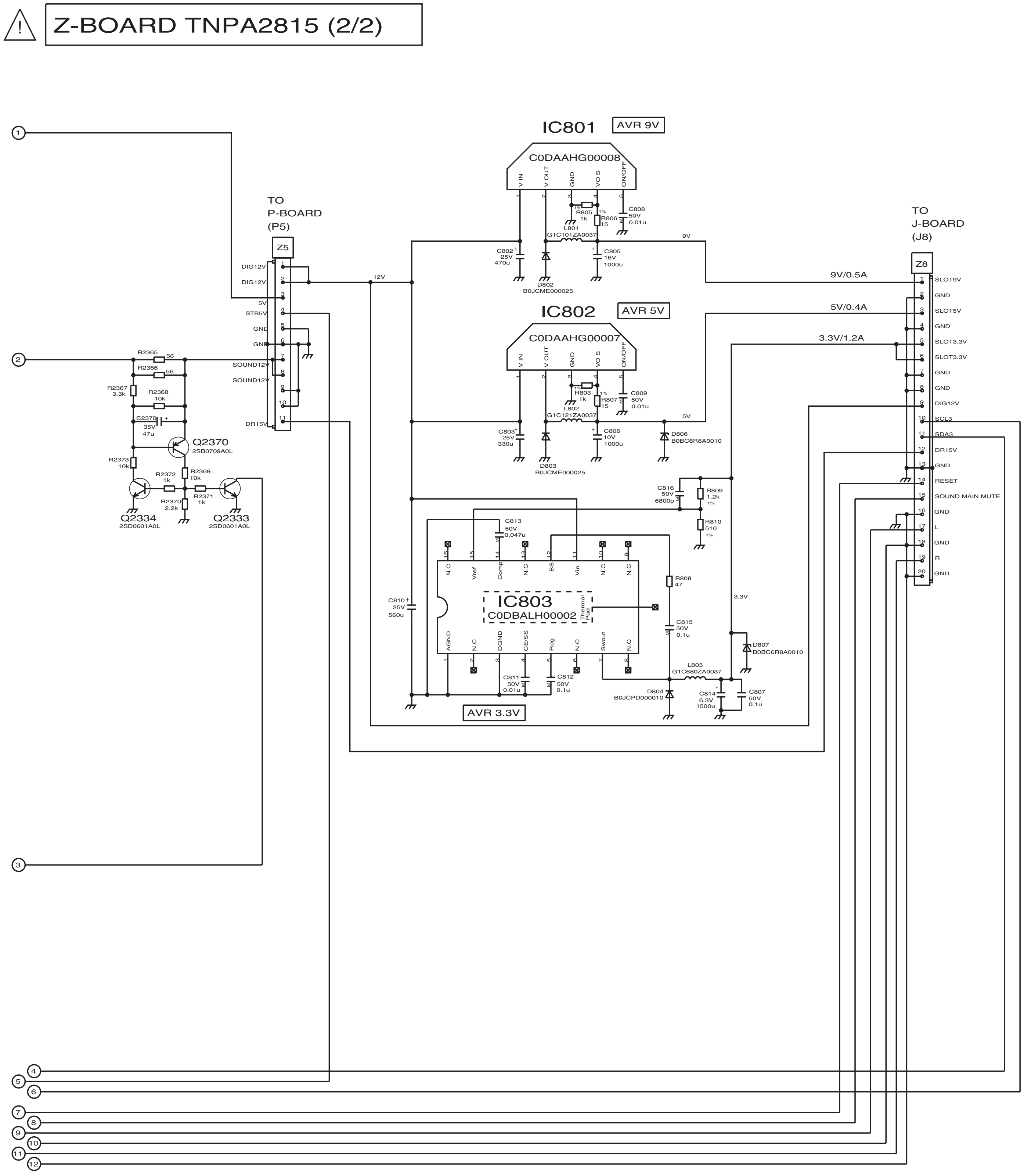
TH-42PHD6/TH-42PHW6
Z-BOARD (1 of 2) and H3-BOARD Schematic Diagram


AVR 9V
IC2304
C0CBAHG00005
L2306
ELJPA100KF
C2314
25V
47u
C2313
50V
47u
JS2301
D2316
B0JCME000025
ZA003
K4ZZ01000121
IC2301
C1BA00000278
AUDIO AMP
R2351
10k
R2353
10k
C2354
35V
47u
LIPPLE FILTER
AMP STB SW
NC
ON TIME
PRE GND
IN
BEEP
POWER GND
SW GND
SW B
SWE
SW OUT
Vcc(SW)
Vcc
OUT
Thermal Pad
C2352
50V
10u
C2350
16V
2.2u
C2356
50V
1000p
C2358
50V
2.2u
C2362
25V
470u
Q2330
2SD1266AQ0LB
L2330
220uH
D2301
B0JCME000025
C2366
50V
2.2u
R2357
1/2W
2.2
C2360
50V
1000p
C2364
50V
0.1u
C2368
50V
0.1u
R2355
2.2
1/2W
R2359
2.2
1/2W
Z7
+R OUT
-R OUT
H37
H3-BOARD
TNPA3003
L8501
G0A2R5H00003
JK8500
K4BC02B00013
L-OUT
NC
L8502
G0A2R5H00003
SOUND_GND
9V
C2417
16V
4.7u
L
R
R_IN
R2343
10k
Q2302
2SD0601A0L
R2410
10k
R2324
560
R2325
560
R2331
0
C2312
50V
0.01u
R2341
10k
R2319
560
Q2301
2SD0601A0L
R2408
10k
R2320
560
R2321
0
IC2302
C1BA00000278
AUDIO AMP
R2352
10k
R2354
10k
C2355
35V
47u
C2353
50V
10u
C2351
16V
2.2u
C2357
50V
1000p
C2359
50V
2.2u
C2363
25V
470u
Q2331
2SD1266AQ0LB
L2331
220uH
D2302
B0JCME000025
C2367
50V
2.2u
R2358
2.2
1/2W
C2361
50V
1000p
C2365
50V
0.1u
C2369
50V
0.1u
R2356
1/2W
2.2
R2360
1/2W
2.2
Z6
+L OUT
-L OUT
H37
H3-BOARD
TNPA3003
L8501
G0A2R5H00003
JK8500
K4BC02B00013
L-OUT
NC
L8502
G0A2R5H00003
SOUND_GND
SCV
PORT
SCL
SDA
R2476
R2477
22
R2309
4.7k
R2350
4.7k
D2308
MA3X152E0L
R2333
470
SCL3
SDA3
R2305
22k
Q2305
2SD0601A0L
R2306
22k
D2317
B0JCME000025
R2485
0
Q2303
2SD0601A0L
R2301
4.7k
R2304
47k
R2332
1.8k
R2310
5.6k
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫

TH-42PHD6/TH-42PHW6
Z-BOARD (1 of 2) and H3-BOARD Schematic Diagram

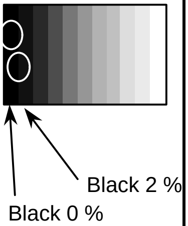
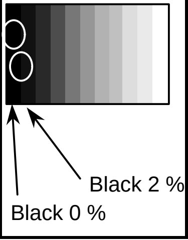
5 6 7 8

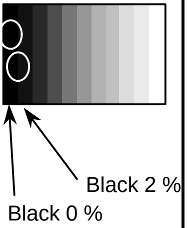
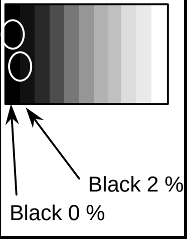
14.62. Z-Board (2 of 2) Schematic Diagram

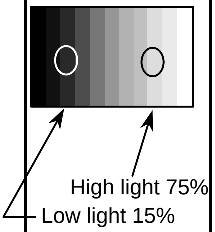

Z-BOARD TNPA2815 (2/2)
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
TO
P-BOARD
(P5)
Z5
DIG12V
DIG12V
5V
STB5V
GND
GND
SOUND12V
SOUND12V
DR15V
12V
R2365 56
R2366 56
R2367 3.3k
R2368 10k
C2370 35V 47u
Q2370
2SB0709A0L
R2373 10k
R2372 1k
R2369 10k
R2371 1k
R2370 2.2k
Q2334
2SD0601A0L
Q2333
2SD0601A0L
IC801
AVR 9V
C0DAAHG00008
V IN
V OUT
GND
VO S
ON/OFF
R805 1k 1%
R806 15 1%
C808 50V 0.01u
L801
G1C101ZA0037
9V
C802 25V 470u
D802
B0JCME000025
C805 16V 1000u
IC802
AVR 5V
C0DAAHG00007
R803 1k 1%
R807 15 1%
C809 50V 0.01u
L802
G1C121ZA0037
5V
C803 25V 330u
D803
B0JCME000025
C806 10V 1000u
D806
B0BC6R8A0010
C816 50V 6800p
R809 1.2k 1%
R810 510 1%
C813 50V 0.047u
IC803
C0DBALH00002
N.C
Vref
Comp
N.C
BS
Vin
N.C
N.C
Thermal Pad
AGND
N.C
DGND
CE/SS
Reg
N.C
Swout
N.C
C810 25V 560u
C811 50V 0.01u
C812 50V 0.1u
AVR 3.3V
R808 47
C815 50V 0.1u
3.3V
D807
B0BC6R8A0010
L803
G1C680ZA0037
D804
B0JCPD000010
C814 6.3V 1500u
C807 50V 0.1u
TO
J-BOARD
(J8)
Z8
9V/0.5A
5V/0.4A
3.3V/1.2A
SLOT9V
GND
SLOT5V
GND
SLOT3.3V
SLOT3.3V
GND
GND
DIG12V
SCL3
SDA3
DR15V
GND
RESET
SOUND MAIN MUTE
GND
L
GND
R
GND

TH-42PHD6/TH-42PHW6
Z-BOARD (2 of 2) Schematic Diagram

12 13 14 15

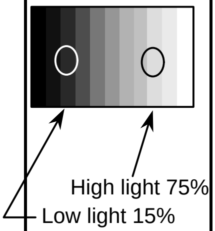
	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RGB(PC) Gray Scale Pattern  		Picture: Normal White balance: **Cool** Aspect: 16:9 COMPONENT /RGB-IN: RGB	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: B Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: R Sub Bright 1	** Adjust at the dark room. 1) Set R,G and B cut off to " **80** ". 2) Set Gun off to "**5**". (Only green pixels can emit.) 3) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area. 4) Set Gun off to "**3**". (Only blue pixels can emit.) 5) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area. 6) Set Gun off to "**6**". (Only red pixels can emit.) 7) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	Component (525i, 525p, 625i, 720i or 1080i) Gray Scale Pattern  		Picture: Normal White balance: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to Component signal. 2) Repeat procedure 1) to 7) of RGB input signal.

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RGB(PC) Gray Scale Pattern 		Picture: Normal White balance: **Cool** Aspect: 16:9 COMPONENT /RGB-IN: RGB	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright 2 Chroma Control: Gun off RGB Sub Adjust: B Sub Bright 2 Chroma Control: Gun off RGB Sub Adjust: R Sub Bright 2	** Adjust at the dark room. 1) Press the SWAP button, change input to signal path. 2) Set R,G and B cut off to " 3) Set Gun off to "**5**". (Only green pixels can emit.) 4) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area. 5) Set Gun off to "**3**". (Only blue pixels can emit.) 6) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area. 7) Set Gun off to "**6**". (Only red pixels can emit.) 8) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	Component (525i, 525p, 625i, 720i or 1080i) Gray Scale Pattern 		Picture: Normal White balance: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to Component signal. 2) Repeat procedure 1) to 7) of RGB input signal.

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	NTSC Gray Scale Pattern  	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m$_2$ as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m$_2$ exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-01. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m$_2$. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-01. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

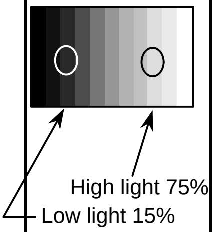
Fig. -01

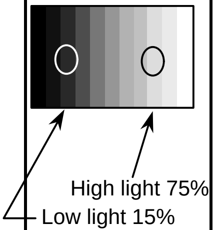
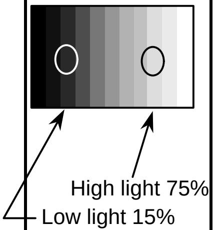
	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PAL Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m$_2$ as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m$_2$ exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-02. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m$_2$. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-02. 9) Repeat procedure 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

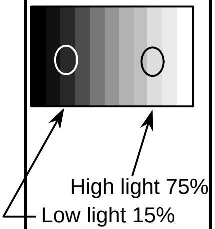
Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Fig. -02

<table>
<tr><th></th><th></th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>SECAM signal</td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2) Input SECAM signal.
3) Copy PAL R,G,B drive and cut off data of each white balance mode to SECAM position.</td></tr>
</table>

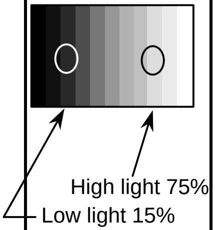
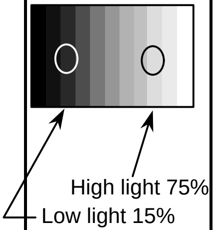
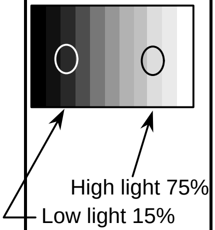
<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>1</td><td rowspan="3">PC
Gray Scale
Pattern
 </td><td rowspan="3">Color
Analyzer</td><td>Picture:
Normal
White balance:
Cool
Aspect:
16:9</td><td>Sub Adjust
Sub Bright
PANEL W/B
G cut off
PANEL W/B
B cut off
R cut off
Sub Adjust
Sub Bright
PANEL W/B
G Drive
PANEL W/B
B Drive
R Drive
PANEL W/B
R,G,B Drive
R,G,B Drive
PANEL W/B
R,G,B cut off</td><td>1) Find the nearest area to brightness of 10 cd/m$_2$ as Low light by color sensor.
2) Adjust Sub bright to set Low light level to 10 cd/m$_2$ exactly.
3) Set G cut off to " 80 ".
4) Adjust B and R cut off to set color temperature as shown Fig.-03.
5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m$_2$.
6)Find 75% of white area by color sensor.
7) Set G Drive to " D8 ".
8) Adjust B and R Drive to set color temperature as shown Fig.-03.
9) Repeat item 4) to 7) to set both Low light and high light.
10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".
11) Re-adjust Low light level again.
<table><tr><th>Color Temp.</th><th>x</th><th>y</th></tr><tr><td>Cool(Hi)</td><td>0.276</td><td>0.276</td></tr><tr><td>Normal(Mid)</td><td>0.288</td><td>0.296</td></tr><tr><td>Warm(Low)</td><td>0.313</td><td>0.329</td></tr></table>Fig. -03</td></tr>
<tr><td>2</td><td>Picture:
Normal
White balance:
Normal
Aspect:
16:9</td><td>PANEL W/B
R,G,B cut off
PANEL W/B
R,G,B Drive</td><td>1) Change white balance to "Normal".
2) Repeat procedure 3) to 11) of Cool mode.</td></tr>
<tr><td>3</td><td>Picture:
Normal
White balance:
Warm
Aspect:
16:9</td><td>PANEL W/B
R,G,B cut off
PANEL W/B
R,G,B Drive</td><td>1) Change white balance to "Warm".
2) Repeat procedure 3) to 11) of Cool mode.</td></tr>
<tr><td>4</td><td></td><td></td><td>Picture:
Normal
White balance:
Cool
Aspect:
16:9</td><td>Picture Menu
Sub Adjust
Sub Bright</td><td>1) Change color templature to "Cool".
2)Re-set Sub bright to "30"</td></tr>
</table>

<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>RGB
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2) Input RGB signal.
3) Copy PC R,G,B drive and cut off data of each white balance mode to RGB position.</td></tr>
<tr><td>6</td><td>DVI
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2) Input DVI signal.
3) Copy PC R,G,B drive and cut off data of each white balance mode to DVI position.</td></tr>
</table>

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	HD (720i or 1080i) Gray Scale Pattern  	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m$_2$ as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m$_2$ exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-04. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m$_2$. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-04. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

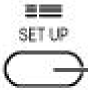
Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Fig. -04

<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>RGB
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2)Change input signal to 525i and 525p.
3) Copy HD drive and cut off data of each white balance mode to each signals position.</td></tr>
<tr><td>6</td><td>RGB
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2)Change input signal to 525p and 625i.
3) Copy HD drive and cut off data of each white balance mode to each signals position.</td></tr>
<tr><td>7</td><td>RGB
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2)Change input signal to 625i and 625p.
3) Copy HD drive and cut off data of each white balance mode to each signals position.</td></tr>
</table>

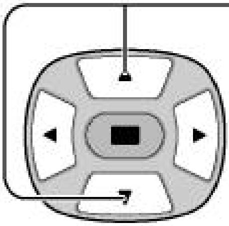
How to access the Option menu

1

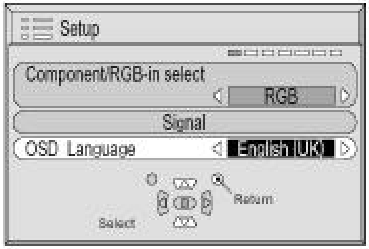


Press to display the Setup menu.

2



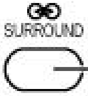
Press to select OSD Language.


Setup
Signal
Select
Return

Component/RGB-in select RGB

OSD Language English (UK)

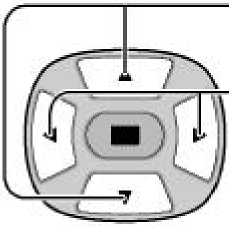
3



Press down for more than 3 seconds to display the Option menu.

Setting the Option menus

1

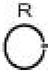


Press to select the desired item.

Press to select the desired function.

The option menu will disappear 60 seconds after operation.

2



Press to exit Option menu.

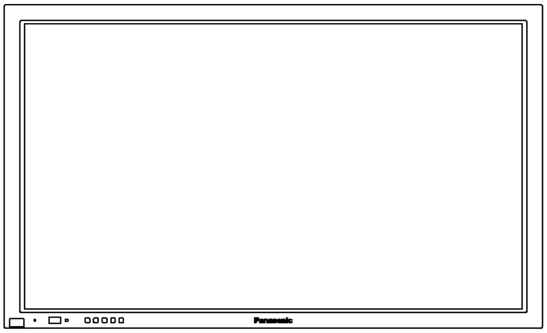
ORDER NO. ITD0308027C0
D10 Canada: B07

Service Manual

High Definition Plasma Display

TH-42PHW6EX
TH-42PHD6EX
TH-42PHD6BX
TH-42PHD6UY

GPH6D Chassis



Specifications

Power Source:	AC120V 50/60Hz (UY version)
	AC220-240V 50/60Hz
	(Except UY version model)
Power Consumption:	265 W
	Save off 1.6 W, Save on 0.9 W (stand-by condition)
	(UY version)
	Save off 1.9 W, Save on 1.1 W (stand-by condition)
	(Except UY version model)
	0.2 W (Power off condition)
	(UY version model)
	0.4 W (Power off condition)
	(Except UY version model)
Plasma Display panel:	Drive method AC type
	16:9 aspect ratio
Contrast Ratio	3000:1
Screen size:	920 mm (W) × 518 mm (H)
	1,056 mm (diagonal)
	No. of pixels
	786,432 (1,024 (W) × 768 (H))
	[3,072 × 768 dots]
Operating condition:	
Temperature	34 °F - 104 °F (0 °C - 40 °C)
Humidity	20 % - 80 %
	Horizontal scanning frequency 15 - 110kHz
	Vertical scanning frequency 48 - 120Hz
Connection terminals:	

AV	
Video in	1.0 Vp-p (75-ohm)
S-VIDEO IN (MINI DIN 4PIN)	Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm)
AUDIO IN (RCA PIN JACK × 2)	0.5 Vrms (high impedance)
COMPONENT/RGB	
Y/G	1.0 Vp-p/composite (75-ohm)
	0.7 Vp-p/non-composite (75-ohm)
P_B/B	0.7 Vp-p (75-ohm)
P_R/R	0.7 Vp-p (75-ohm)
HD	1.0 - 5.0 Vp-p (high impedance)
VD	1.0 - 5.0 Vp-p (high impedance)
AUDIO IN	0.5 Vrms (high impedance)
(RCA PIN JACK×2)	
PC	
(HIGH-DENSITY D-SUB15PIN)	R,G,B/0.7 Vp-p (75-ohm)
	HD, VD/1.0 - 5.0 Vp-p (high impedance)
AUDIO IN (M3 JACK)	0.5Vrms (high impedance)
SERIAL	
EXTERNAL CONTROL TERMINAL (D-SUB9PIN)	RS-232C COMPATIBLE
SPEAKERS (External speakers) (6Ω)	16W [8W+8W] (10% THD)
Dimensions (W×H×D):	1,020 mm × 610 mm 89 mm
Weight (Mass)	approx. 29.5 kg net (main unit only)
	approx. 33.7 kg net (with speakers)

Panasonic®

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Applicable signals

VIDEO input

	signal name	horizontal frequency(kHz)	vertital frequency(Hz)
1	NTSC	15.734	59.95
2	PAL	15.625	50
3	PAL60	15.734	59.95
4	SECAM	15.625	50
5	Modified NTSC	15.734	59.95

∗ Mark:
By installing the optional Terminal Board.

Applicable input signals for PC Input (D-sub 15P) (* Mark)

	signal name	horizontal frequency(kHz)	vertital frequency(Hz)	RGB	PC	when Multi Screen and Digital Zoom
1	525(480)/60i	15.73	59.94	∗	∗	∗
2	525(480)/60p	31.47	59.94	∗	∗	∗
3	625(575)/50i	15.63	50.00	∗	∗	∗
4	625(575)/50p	31.25	50.00	∗	∗	∗
5	750(720)/60p	45.00	60.00	∗	∗	∗
6	750(720)/50p	37.50	50.00	∗	∗	∗
7	1,125(1,080)/60i	33.75	59.94	∗	∗	∗
8	1,125(1,080)/50i	28.13	50.00	∗	∗	∗
9	1,125(1,080)/24p	27.00	24.00	∗	∗	
10	1,125(1,080)/24sF	27.00	48.00	∗	∗	∗
11	1,250(1,080)/50i	31.25	50.00	∗	∗	∗
12	640 × 400@70 Hz	31.47	70.00		∗	∗
13	640 × 480@60 Hz	31.47	59.94		∗	∗
14	Macintosh13"(640 × 480)	35.00	66.67		∗	∗
15	640 × 480@75 Hz	37.50	75.00		∗	∗
16	852 × 480@60 Hz	31.50	60.00		∗	∗
17	800 × 600@60 Hz	37.88	60.32		∗	∗
18	800 × 600@75 Hz	46.88	75.00		∗	∗
19	800 × 600@85 Hz	53.67	85.06		∗	∗
20	Macintosh16"(832 × 624)	49.73	74.55		∗	∗
21	1,024 × 768@60 Hz	48.36	60.00		∗	∗
22	1,024 × 768@70 Hz	56.48	70.07		∗	∗
23	1,024 × 768@75 Hz	60.02	75.03		∗	∗
24	1,024 × 768@85 Hz	68.68	85.00		∗	∗
25	Macintosh21"(1,152 × 870)	68.68	75.06		∗	
26	1,280 × 1,024@60 Hz	63.98	60.02		∗	
27	1,280 × 1,024@75 Hz	79.98	75.03		∗	
28	1,280 × 1,024@85 Hz	91.15	85.02		∗	
29	1,600 × 1,200@60 Hz	75.00	60.00		∗	
30	1,0660 × 600@60 Hz	37.88	60.32		∗	∗
31	1,366 × 768@60 Hz	48.36	60.00		∗	∗

2 Safety Precautions

2.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1MΩ and 5.2MΩ.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

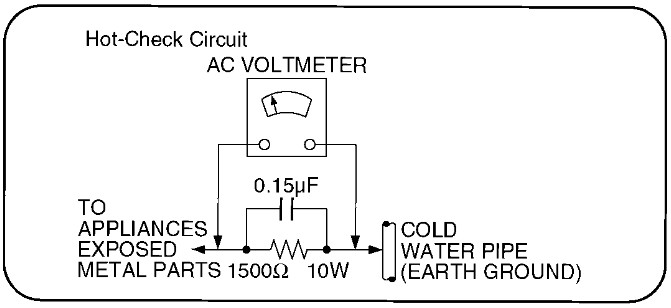

Hot-Check Circuit
AC VOLTMETER
0.15μF
TO APPLIANCES EXPOSED METAL PARTS
1500Ω 10W
COLD WATER PIPE (EARTH GROUND)

Figure 1

2.1.2. Leakage Current Hot Check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5kΩ, 10 watts resistor, in parallel with a 0.15μF capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

3 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4 About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

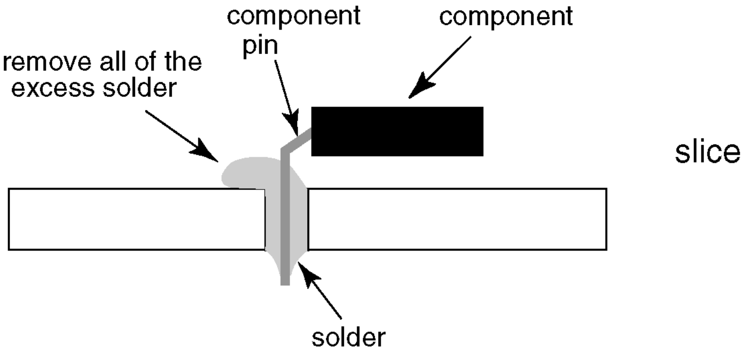
This model uses Pb Free solder in it's manufacture due to environmental conservation issues. For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol PbF stamped on the back of PCB.

Caution

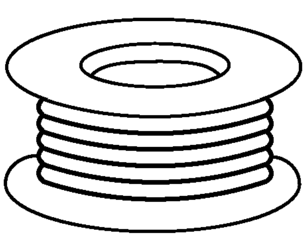
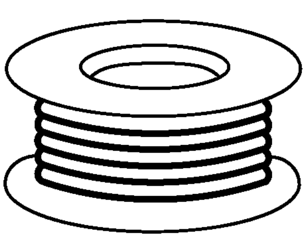
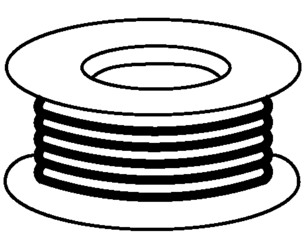
- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).

  If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.

0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

5 PCB Structure sheet of GPH6D chassis

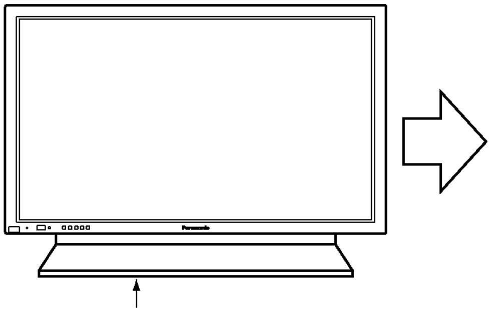
Board Name	Function	Remarks
D	Digital Signal Processor	1
J	Slot Interface & SYNC processor	1
Z	Audio out, DC-DC converter	
SS	Sustain Out	1
SC	Scan out	1
SU	Sustain connection (Upper)	1
SD	Sustain connection (Lower)	1
C1	Data Drive (Upper Right)	
C2	Data Drive (Upper Left)	
C3	Data Drive (Lower Left)	
C4	Data Drive (Lower Left)	
H3	Speaker terminal	
S1	Power switch	
SS2	Sustain connection (Upper)	
SS3	Sustain connection (Lower)	
V1	Front SW. & Remote receiver	
PF	Line filter	
P	Power supply	1
HX	PC_type_Input terminal	
HY	BNC Composite/Component Video	2
HZ	BNC Component Video	3

Remarks

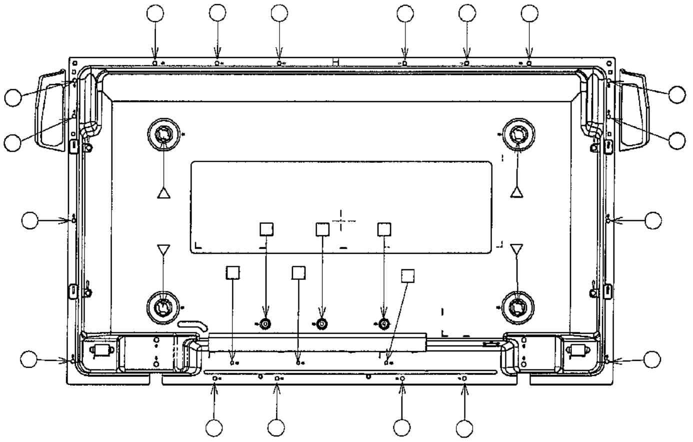
1. Recommend PCB´s for initial service for GPH6D chassis.
2. For System model except BX, EX version
3. For Consumer model except BX, EX version

6 Service Hint

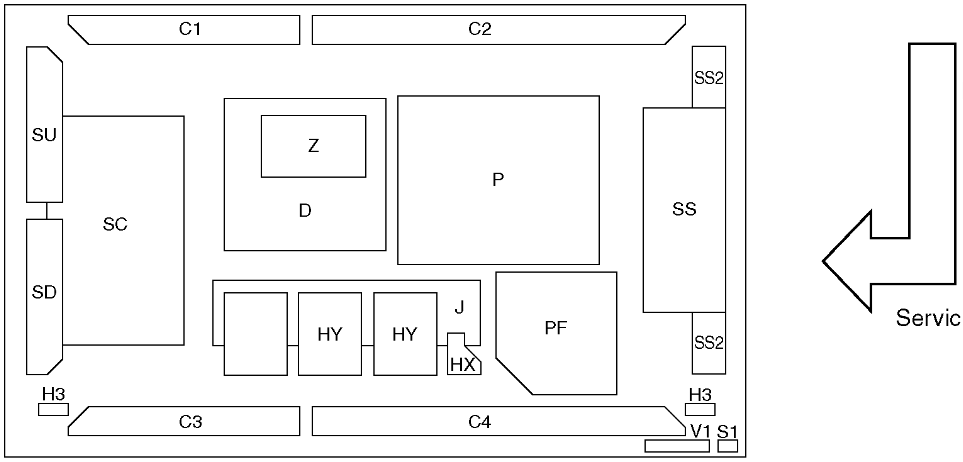
Stand the Unit used for Optional Accessory


Optional Accessory
(Pedestal)

Remove the Back Cover

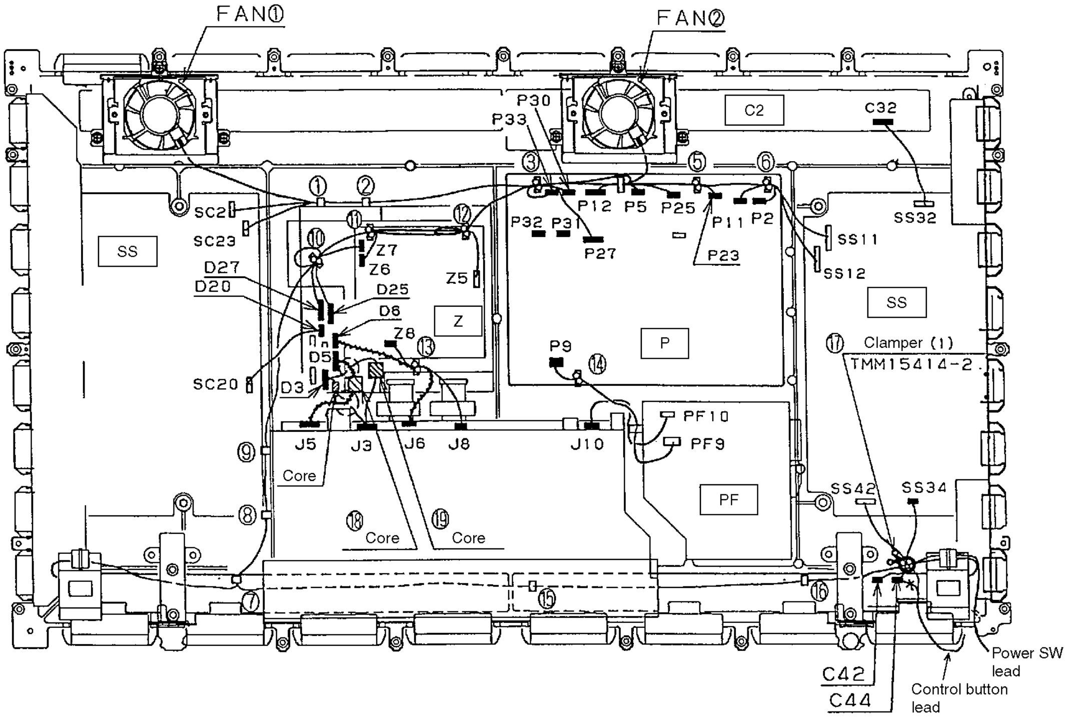


Remove: 4 screws (△) XYN8+F20FZ
6 screws (□) THEL023Z
18 screws (○) XYC4+FJ35FZ


C1
C2
SS2
SU
Z
P
SC
D
SS
SD
J
HY
HY
HX
PF
SS2
H3
H3
C3
C4
V1
S1

Service Position

7 Location of Lead Wiring


FAN①
FAN②
P30
P33
C2
C32
SS32
③
⑤
⑥
①
②
SC2
SC23
SS
D27
D20
⑪
⑫
⑩
Z7
Z6
D25
Z5
D6
Z
Z8
⑬
D5
SC20
D3
P12
P5
P25
P11
P2
P32
P31
P27
P23
SS11
SS12
SS
P9
⑭
P
⑰
Clamper (1)
TMM15414-2
PF10
PF9
PF
J5
J3
J6
J8
J10
⑨
Core
⑧
⑱
Core
⑲
Core
SS42
SS34
⑦
⑮
⑯
C42
C44
Power SW lead
Control button lead

CLAMPER CON:NO — CON:NO	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
SC2 — P2	○	○	○	○	○	○														
SC23 — P23	○	○	○	○	○															
SC20 — D20																				
D27 — P27			○							◎	○	○								
D25 — P25			○	○						◎	○	○								
D3 — J3																			○	
D6 — J6													○							
Z8 — J8													○							
D5 — J5																		○		
Z5 — P5			○	○								◎								
SP (SC SIDE) — Z7							○	○	○	○										
SP (SS SIDE) — Z6							○	○	○	○	○				○	○	○			
SS12 — P12				○	○	○														
SS11 — P11						○														
SS42 — C42																	○			
SS32 — C32																				
POWER SW — SS34																	○			
CONTROL BUTTON — C44																	○			
PF9 — P9														○						
PF10 — J10																				
FAN① — P30	○	○	○																	
FAN② — P33			○	○																

◎ Wind up second times.

Connector Connection: P2, P5, P9, P11, P12, P23, P25, P27, P30, P31, P32, P33
Z6, Z7, Z8,
D3, D5, D6, D20, D25, D27
J3, J5, J6, J8, J10,
SS34,
C23, C42, C44

8 Adjustment Procedure

8.1. Driver Set-up

8.1.1. Item / Preparation

1. Input an APL 100 % white signal.
2. Set the picture controls: -

   Picture mode: Normal

   White balance: Cool

   Aspect: 16:9

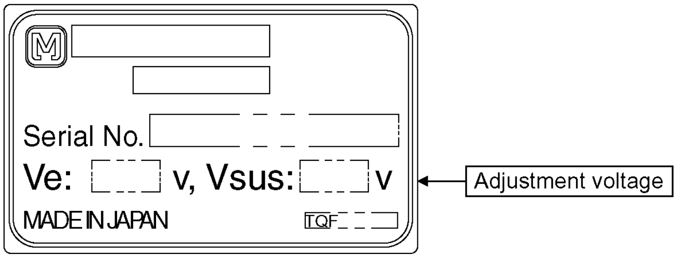
8.1.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	170V ± 2V	VR641 (P)	
Ve	TPVE (SS)	150V ± 1V	R6770 (SS)	
Vset	TPVSET (SC)	220V ± 5V	---	
Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
Vscn	TPVSCN (SC)	Vad*+118V ± 2V	---	
Vda	TPVDA (SS)	67V ± 1V	VR665 (P)	

*See the Panel label.

Panel Label information



8.2. Initialization Pulse Adjust

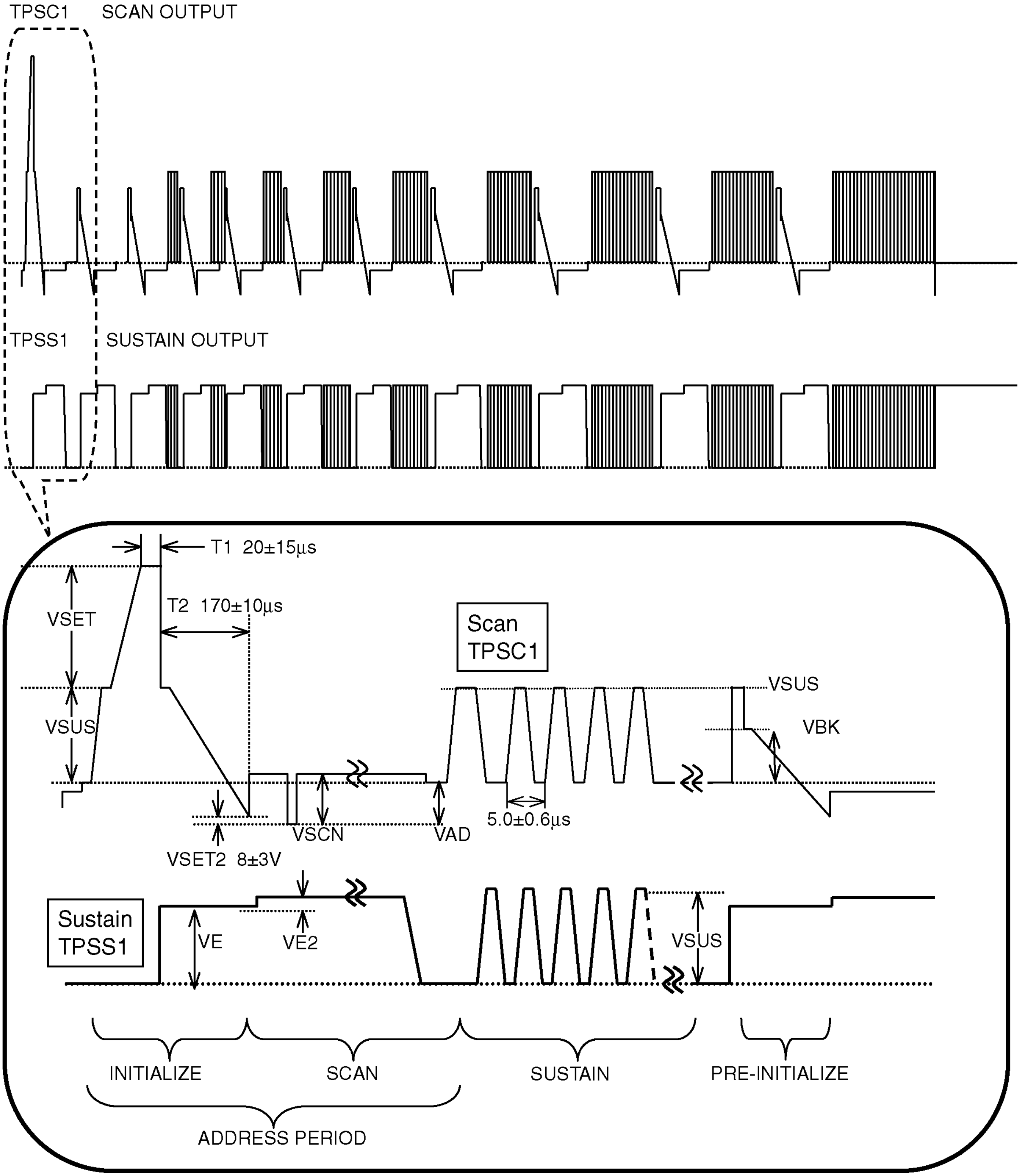
1. Input a Cross hatch signal.
2. Set the picture controls: -

   Picture mode: Normal

   White balance: Cool

Adjust the indicated test point for the specified wave form.

	Test point	Volume	Level
T1	TPSC1 (SC)	---	20 ± 15μ Sec
T2	TPSS1 (SS)	R6557 (SC)	170 ± 10μ Sec


TPSC1
SCAN OUTPUT
TPSS1
SUSTAIN OUTPUT
T1 20±15μs
VSET
T2 170±10μs
VSUS
Scan
TPSC1
VSUS
VBK
VSET2 8±3V
VSCN
VAD
5.0±0.6μs
Sustain
TPSS1
VE
VE2
VSUS
INITIALIZE
SCAN
SUSTAIN
PRE-INITIALIZE
ADDRESS PERIOD

8.3. P.C.B. (Printed Circuit Board) exchange

8.3.1. Caution

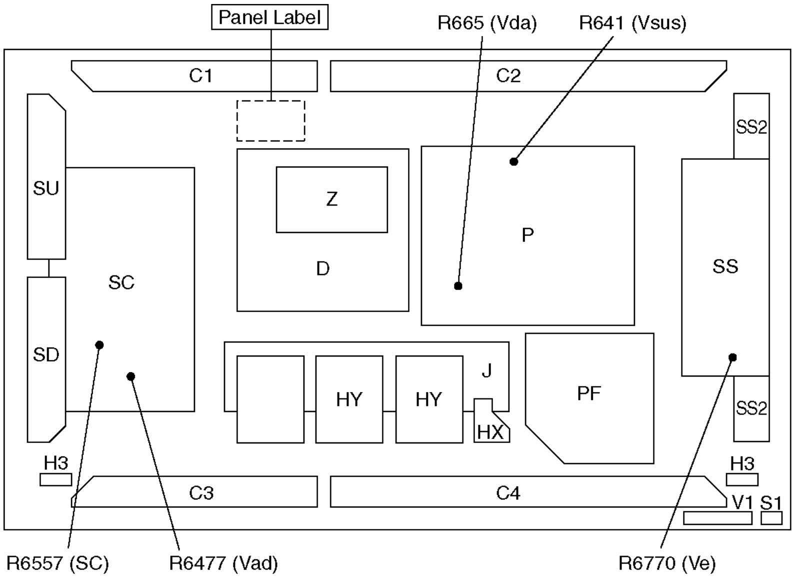
1. To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.

8.3.2. Quick adjustment after P.C.B. exchange

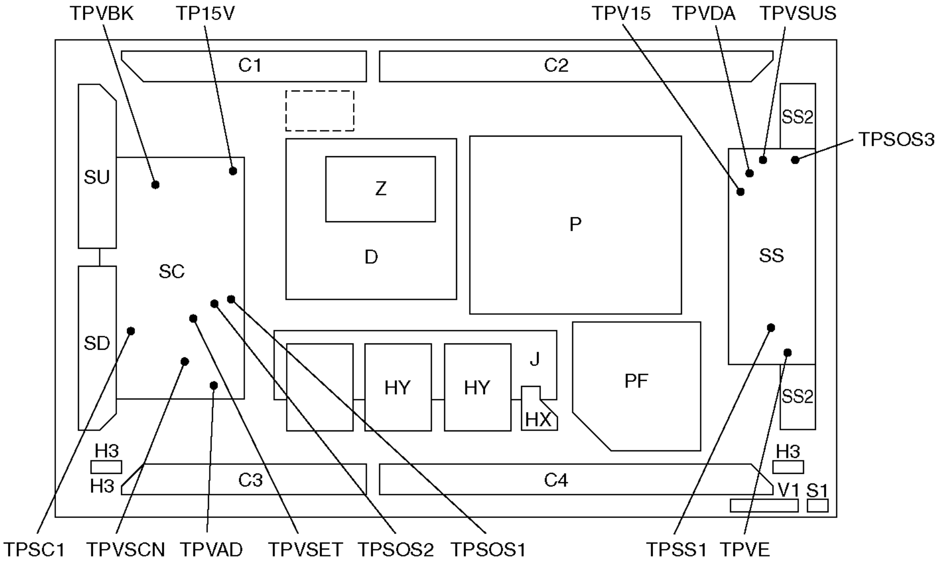
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	Vsus	TPVSUS (SS)	170V ± 2V	R641 (P)	
	Vda	TPVDA (SS)	67V ± 1V	R665 (P)	
SC Board	Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
	Vset	TPVSET (SC)	220V ± 5V	---	
	Vscn	TPVSCN (SC)	Vad + 118 ± 2V	---	
SS Board	Ve	TPVE (SS)	158V ± 1V	R6770 (SS)	
D, J Board	White blance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625i signals				

*See the Panel label.

8.4. Adjustment Volume Location


Panel Label
R665 (Vda)
R641 (Vsus)
C1
C2
SS2
SU
Z
P
D
SS
SC
SD
J
HY
HY
PF
HX
SS2
H3
H3
C3
C4
V1
S1
R6557 (SC)
R6477 (Vad)
R6770 (Ve)

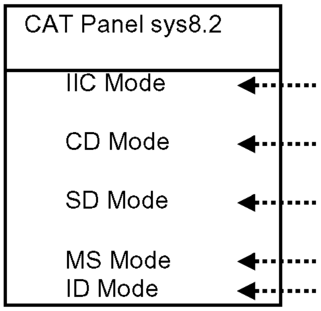
8.5. Test Point Location


TPVBK
TP15V
TPV15
TPVDA
TPVSUS
C1
C2
SS2
TPSOS3
SU
Z
P
D
SS
SC
SD
J
HY
HY
PF
HX
SS2
H3
H3
H3
C3
C4
V1
S1
TPSC1
TPVSCN
TPVAD
TPVSET
TPSOS2
TPSOS1
TPSS1
TPVE

9 Service mode

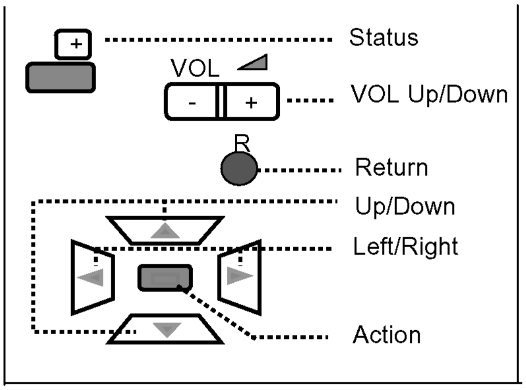
9.1. CAT (computer Aided Test) mode

CAT mode menu


CAT Panel sys8.2
IIC Mode
CD Mode
SD Mode
MS Mode
ID Mode

Mode	Function	Access button
IIC	Service Alignment	Action
CD(Complete Diagnostics)	Software version information EEPROM edit	Mute more than 5 seconds
SD(Status Display)	MTBF parameter	Action
MS Mode	Not use	-----
ID	Not use	-----

Remote control


+
Status
VOL
-
+
VOL Up/Down
R
Return
Up/Down
Left/Right
Action

How to access the CAT mode.

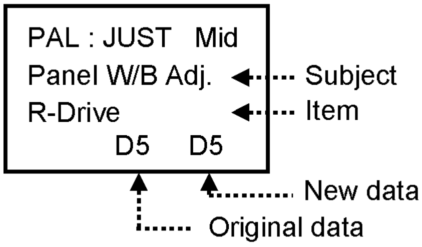
Press and the hold the Volume down / - buton on the front panel of the unit and press the status button on the remote control 3 times quickly within 1 second, this will place the unit into the CAT mode.

To exit the **CAT mode**, access the **ID mode** and switch off the main power.

9.1.1. IIC mode

Select the IIC mode by **Up/Down button** on the remote control at the front page of CAT mode then press the **Action button** on the remote control.

OSD


PAL : JUST Mid
Panel W/B Adj.
R-Drive
D5 D5
Subject
Item
New data
Original data

How to use the IIC mode.

1. Select the alignment **Subject** by **Up/Down buttons** on the remote control.
2 .Select the alignment **Item** by **Left/Right buttons** on the remote control.
3. Adjust **optimum setting** by **Volume Up/Down buttons** on the remote control.
4. The **data is memorized** when press the **R button** on the remote control or change the alignment Subject (or Items).

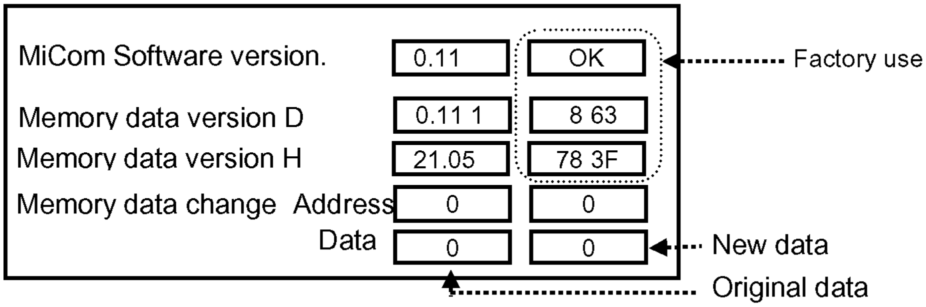
Subject and item are mentioned on page 14.

To exit the IIC mode, press the **R button** on the remote control.

9.1.2. CD mode

Select the CD mode by **Up/Down button** on the remote control at the front page of CAT mode then press the **Mute button** on the remote control more than 5 sec.

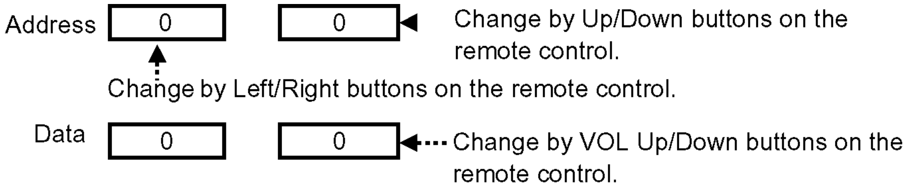
OSD


MiCom Software version.
0.11
OK
Factory use
Memory data version D
0.11 1
8 63
Memory data version H
21.05
78 3F
Memory data change Address
0
0
Data
0
0
New data
Original data

Micom software version (IC9354), this version can be upgrade by

1. replace of new version IC
2. Loading the new version software from loader tool, TZSC07036.

Memory data change


Address
0
0
Change by Up/Down buttons on the remote control.
Change by Left/Right buttons on the remote control.
Data
0
0
Change by VOL Up/Down buttons on the remote control.

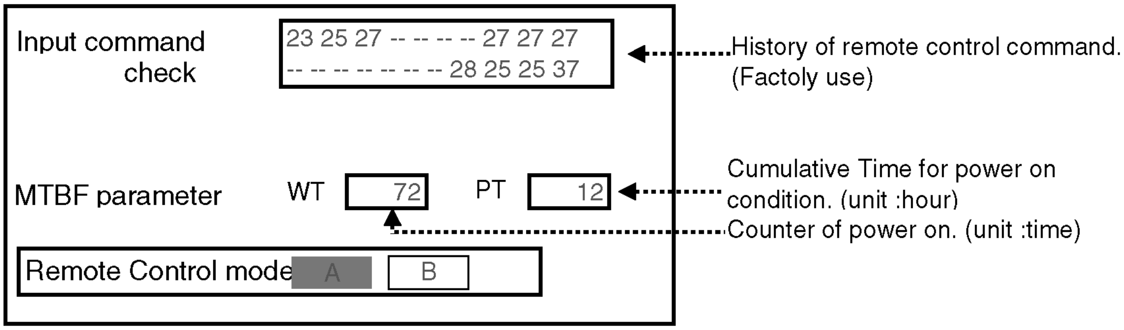
The data is memorized when switch off the main power.

To exit the CD mode, press the **R button** on the remote control.

9.1.3. SD mode

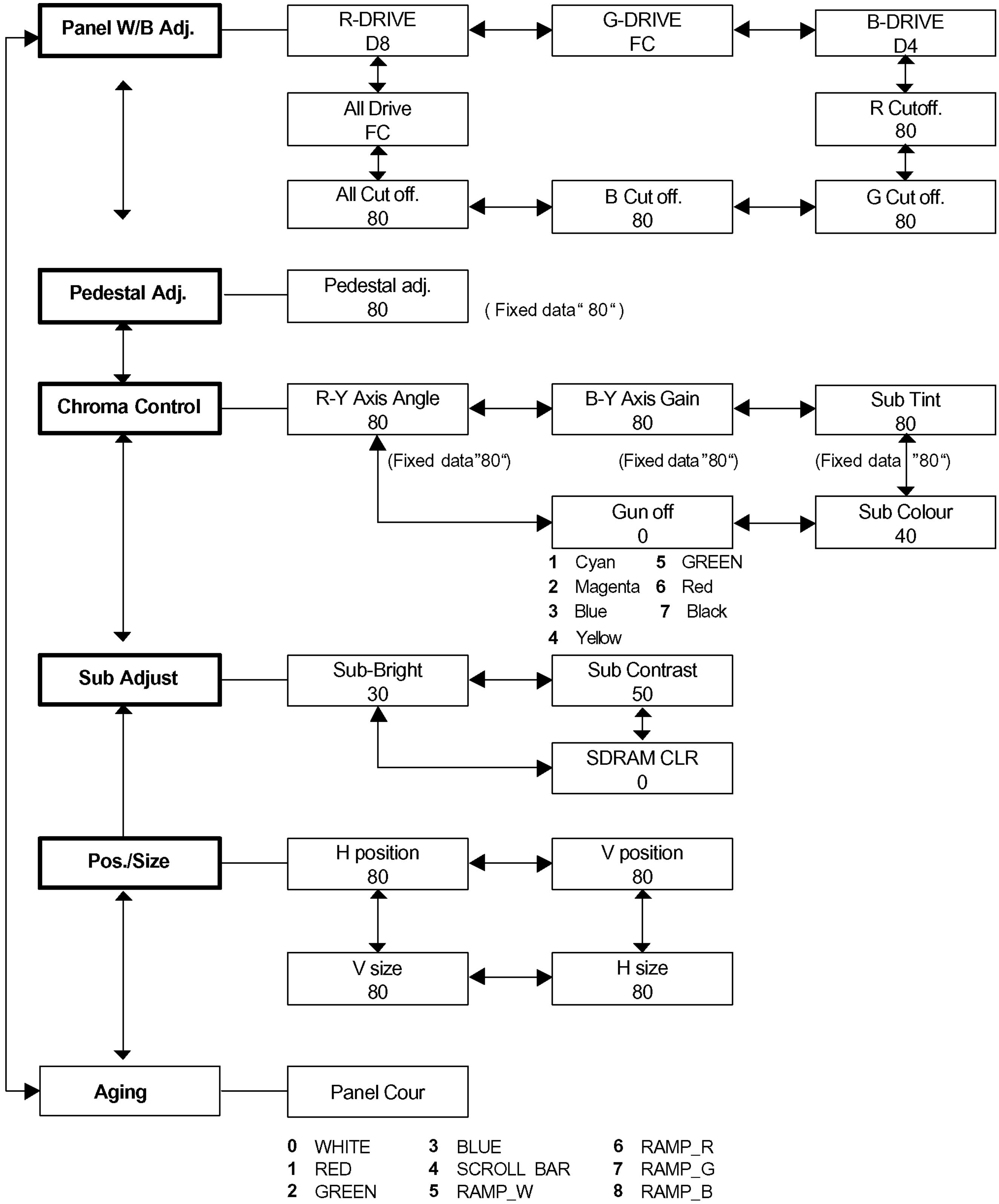
Select the SD mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.

OSD


Input command check
23 25 27 -- -- -- -- 27 27 27
-- -- -- -- -- -- -- 28 25 25 37
History of remote control command. (Factoly use)
MTBF parameter
WT
72
PT
12
Cumulative Time for power on condition. (unit :hour)
Counter of power on. (unit :time)
Remote Control mode
A
B

To exit the SD mode, press the **R button** on the remote control.

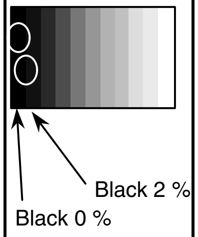
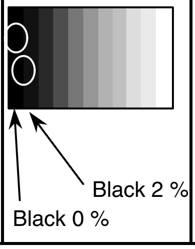
9.2. IIC mode structure (following items value is sample data.)


Panel W/B Adj.
R-DRIVE D8
G-DRIVE FC
B-DRIVE D4
All Drive FC
R Cutoff. 80
All Cut off. 80
B Cut off. 80
G Cut off. 80
Pedestal Adj.
Pedestal adj. 80
(Fixed data“ 80“)
Chroma Control
R-Y Axis Angle 80
B-Y Axis Gain 80
Sub Tint 80
(Fixed data”80“)
(Fixed data”80“)
(Fixed data ”80“)
Gun off 0
Sub Colour 40
1 Cyan
2 Magenta
3 Blue
4 Yellow
5 GREEN
6 Red
7 Black
Sub Adjust
Sub-Bright 30
Sub Contrast 50
SDRAM CLR 0
Pos./Size
H position 80
V position 80
V size 80
H size 80
Aging
Panel Cour
0 WHITE
1 RED
2 GREEN
3 BLUE
4 SCROLL BAR
5 RAMP_W
6 RAMP_R
7 RAMP_G
8 RAMP_B

These are selected by Action button of Remote.

10 Alignment

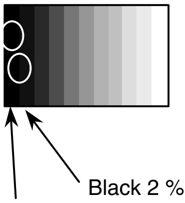
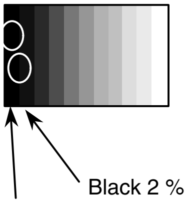
10.1. Pedestal setting (C)

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RGB(PC) Gray Scale Pattern 		Picture: Normal White balance: **Cool** Aspect: 16:9 COMPONENT /RGB-IN: RGB	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: B Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: R Sub Bright 1	** Adjust at the dark room. 1) Set R,G and B cut off to " **80** ". 2) Set Gun off to "**5**". (Only green pixels can emit.) 3) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area. 4) Set Gun off to "**3**". (Only blue pixels can emit.) 5) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area. 6) Set Gun off to "**6**". (Only red pixels can emit.) 7) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	Component (525i, 525p, 625i, 720i or 1080i) Gray Scale Pattern 		Picture: Normal White balance: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to Component signal. 2) Repeat procedure 1) to 7) of RGB input signal.

Note:

OSD is the difference between UY model and Except UY model.
Picture: Normal (Except UY)/Standard (UY model)
White balance (Except UY)/Color Temp (UY model)

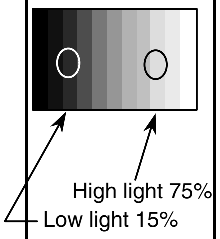
10.2. Pedestal setting (B)

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RGB(PC) Gray Scale Pattern 		Picture: Normal White balance: **Cool** Aspect: 16:9 COMPONENT /RGB-IN: RGB	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright 2 Chroma Control: Gun off RGB Sub Adjust: B Sub Bright 2 Chroma Control: Gun off RGB Sub Adjust: R Sub Bright 2	** Adjust at the dark room. 1) Press the SWAP button, change input to signal path. 2) Set R,G and B cut off to " 3) Set Gun off to "**5**". (Only green pixels can emit.) 4) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area. 5) Set Gun off to "**3**". (Only blue pixels can emit.) 6) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area. 7) Set Gun off to "**6**". (Only red pixels can emit.) 8) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	Component (525i, 525p, 625i, 720i or 1080i) Gray Scale Pattern 		Picture: Normal White balance: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to Component signal. 2) Repeat procedure 1) to 7) of RGB input signal.

Note:

OSD is the difference between UY model and Except UY model.
Picture: Normal (Except UY)/Standard (UY model)
White balance (Except UY)/Color Temp (UY model)

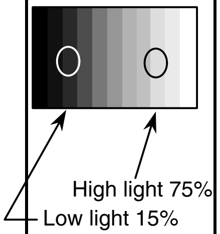
10.3. NTSC panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	NTSC Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m_2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m_2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-01. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m_2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-01. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Fig. -01

10.4. PAL/SECAM panel white balance

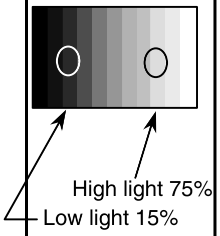
	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PAL Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9		1) Find the nearest area to brightness of 10 cd/m^2 as Low light by color sensor.
				Sub Adjust Sub Bright	2) Adjust Sub bright to set Low light level to 10 cd/m^2 exactly.
				PANEL W/B G cut off	3) Set G cut off to " 80 ".
				PANEL W/B B cut off R cut off	4) Adjust B and R cut off to set color temperature as shown Fig.-02.
				Sub Adjust Sub Bright	5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m^2.
					6)Find 75% of white area by color sensor.
				PANEL W/B G Drive	7) Set G Drive to " D8 ".
				PANEL W/B B Drive R Drive	8) Adjust B and R Drive to set color temperature as shown Fig.-02.
					9) Repeat procedure 4) to 7) to set both Low light and high light.
				PANEL W/B R,G,B Drive R,G,B Drive	10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".
				PANEL W/B R,G,B cut off	11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Fig. -02

<table>
<tr><th></th><th></th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td></td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table></td></tr>
<tr><td></td><td>SECAM signal</td><td></td><td></td><td></td><td>2) Input SECAM signal.
3) Copy PAL R,G,B drive and cut off data of each white balance mode to SECAM position.</td></tr>
</table>

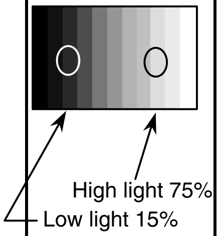
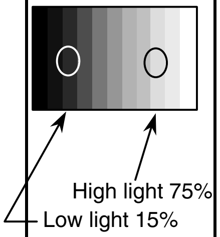
10.5. PC/RGB panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PC Gray Scale Pattern  	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright	1) Find the nearest area to brightness of 10 cd/m^2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m^2 exactly.
				PANEL W/B G cut off	3) Set G cut off to " 80 ".
				PANEL W/B B cut off R cut off	4) Adjust B and R cut off to set color temperature as shown Fig.-03.
				Sub Adjust Sub Bright	5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m^2.
					6)Find 75% of white area by color sensor.
				PANEL W/B G Drive	7) Set G Drive to " D8 ".
				PANEL W/B B Drive R Drive	8) Adjust B and R Drive to set color temperature as shown Fig.-03.
					9) Repeat item 4) to 7) to set both Low light and high light.
				PANEL W/B R,G,B Drive R,G,B Drive	10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".
				PANEL W/B R,G,B cut off	11) Re-adjust Low light level again.

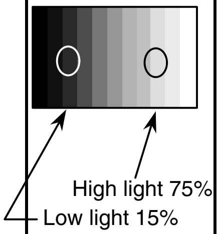
Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

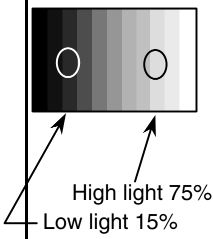
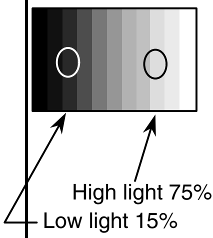
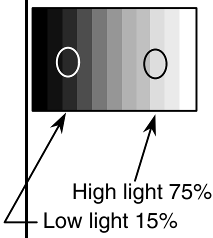
Fig. -03

	INPUT	Equipment	Setting	Alignment menu	Procedure
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>RGB
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table><tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table>
2) Input RGB signal.
3) Copy PC R,G,B drive and cut off data of each white balance mode to RGB position.</td></tr>
<tr><td>6</td><td>DVI
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table><tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table>
2) Input DVI signal.
3) Copy PC R,G,B drive and cut off data of each white balance mode to DVI position.</td></tr>
</table>

10.6. HD/ 525i /525p /625I /625P panel white balance

<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>1</td><td rowspan="3">HD
(720i or 1080i)
Gray Scale
Pattern
 </td><td rowspan="3">Color
Analyzer</td><td>Picture:
Normal
White balance:
Cool
Aspect:
16:9</td><td>Sub Adjust
Sub Bright
PANEL W/B
G cut off
PANEL W/B
B cut off
R cut off
Sub Adjust
Sub Bright
PANEL W/B
G Drive
PANEL W/B
B Drive
R Drive
PANEL W/B
R,G,B Drive
R,G,B Drive
PANEL W/B
R,G,B cut off</td><td>1) Find the nearest area to brightness of 10 cd/m$_2$ as Low light by color sensor.
2) Adjust Sub bright to set Low light level to 10 cd/m$_2$ exactly.
3) Set G cut off to " 80 ".
4) Adjust B and R cut off to set color temperature as shown Fig.-04.
5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m$_2$.
6)Find 75% of white area by color sensor.
7) Set G Drive to " D8 ".
8) Adjust B and R Drive to set color temperature as shown Fig.-04.
9) Repeat item 4) to 7) to set both Low light and high light.
10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".
11) Re-adjust Low light level again.
<table>
<tr><th>Color Temp.</th><th>x</th><th>y</th></tr>
<tr><td>Cool(Hi)</td><td>0.276</td><td>0.276</td></tr>
<tr><td>Normal(Mid)</td><td>0.288</td><td>0.296</td></tr>
<tr><td>Warm(Low)</td><td>0.313</td><td>0.329</td></tr>
</table>
Fig. -04</td></tr>
<tr><td>2</td><td>Picture:
Normal
White balance:
Normal
Aspect:
16:9</td><td>PANEL W/B
R,G,B cut off
PANEL W/B
R,G,B Drive</td><td>1) Change white balance to "Normal".
2) Repeat procedure 3) to 11) of Cool mode.</td></tr>
<tr><td>3</td><td>Picture:
Normal
White balance:
Warm
Aspect:
16:9</td><td>PANEL W/B
R,G,B cut off
PANEL W/B
R,G,B Drive</td><td>1) Change white balance to "Warm".
2) Repeat procedure 3) to 11) of Cool mode.</td></tr>
<tr><td>4</td><td></td><td></td><td>Picture:
Normal
White balance:
Cool
Aspect:
16:9</td><td>Picture Menu
Sub Adjust
Sub Bright</td><td>1) Change color templature to "Cool".
2)Re-set Sub bright to "30"</td></tr>
</table>

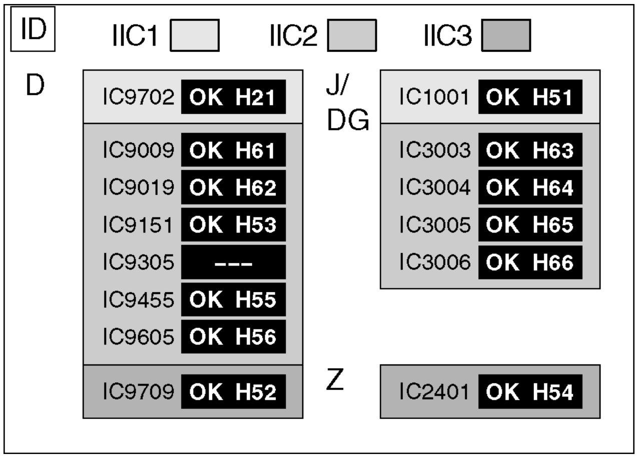
<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>RGB
Gray Scale
Pattern

</td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2)Change input signal to 525i and 525p.
3) Copy HD drive and cut off data of each white balance mode to each signals position.</td></tr>
<tr><td>6</td><td>RGB
Gray Scale
Pattern

</td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2)Change input signal to 525p and 625i.
3) Copy HD drive and cut off data of each white balance mode to each signals position.</td></tr>
<tr><td>7</td><td>RGB
Gray Scale
Pattern

</td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2)Change input signal to 625i and 625p.
3) Copy HD drive and cut off data of each white balance mode to each signals position.</td></tr>
</table>

11 Trouble shooting guide

11.1. Self Check

11.1.1. Display Indication

1. Self-check is used to automatically check the bus line controlled circuit of the Plasma display.
2. To get into the Self-check mode, press the **volume down** button on the customer controls at the front of the set, at the same time pressing the **OFF-TIMER** button on the remote control, and the screen will show :-



ID IIC1 ▢ IIC2 ▢ IIC3 ▢

D	IC9702	OK H21	J/ DG	IC1001	OK H51
	IC9009	OK H61		IC3003	OK H63
	IC9019	OK H62		IC3004	OK H64
	IC9151	OK H53		IC3005	OK H65
	IC9305	---		IC3006	OK H66
	IC9455	OK H55			
	IC9605	OK H56			
	IC9709	OK H52	Z	IC2401	OK H54

If the CCU ports have been checked and found to be incorrect Or not located then " - - " will appear in place of " OK "

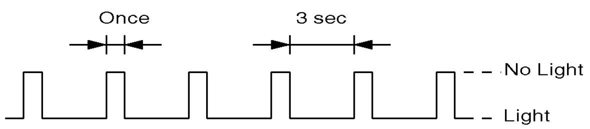
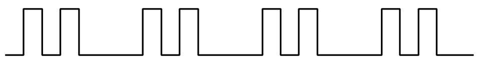
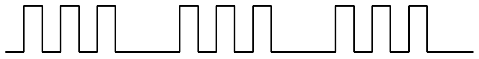
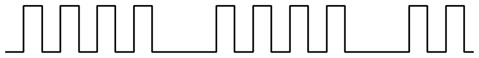
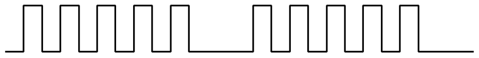
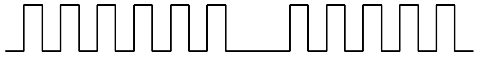
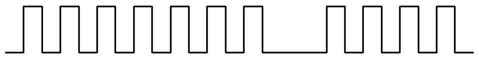
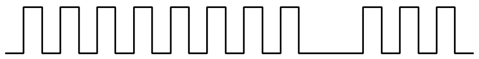
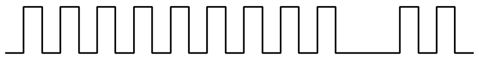
11.1.2. Power LED Blinking timing chart

1. Subject

   Information of LED Flashing timing chart.

2. Contents

   When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinkes of the Power LED on the front panel of the unit.

Blinking times	Blinking timing	Contents & Check point
1		Main Micom Power
2		SCAN Driver1
3		3.3V SOS
4		5V SOS
5		Power SOS
6		FAN
7		SCAN Driver2
8		TEMP (Not used)
9		SUS Driver

3. Remarks

   Above Fan function is operated during the fans are installed.

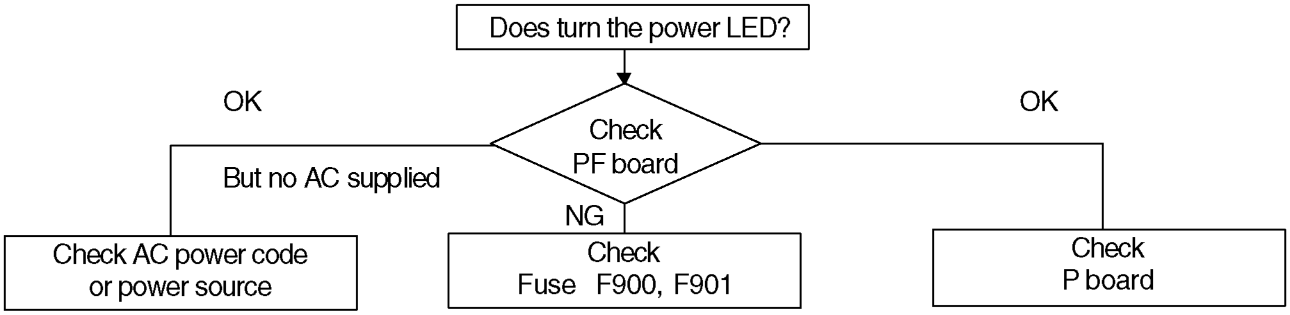
11.2. No Power

First check point

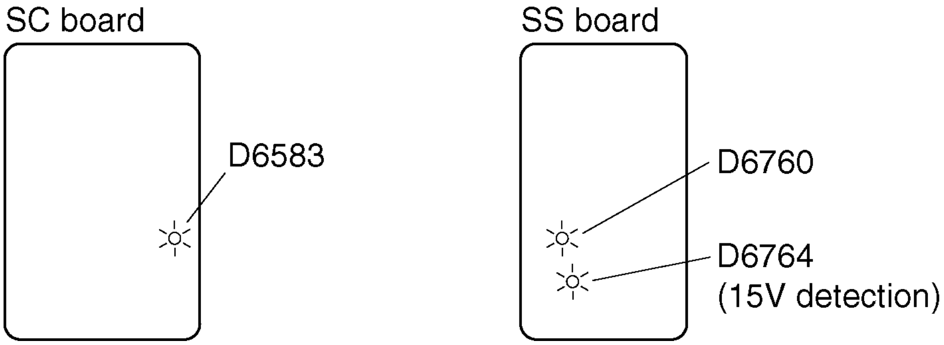
There are following 3 states of No Power indication by power LED.

1. No lit
2. Green is lit then turns red blinking a few seconds later.
3. Only red is lit.

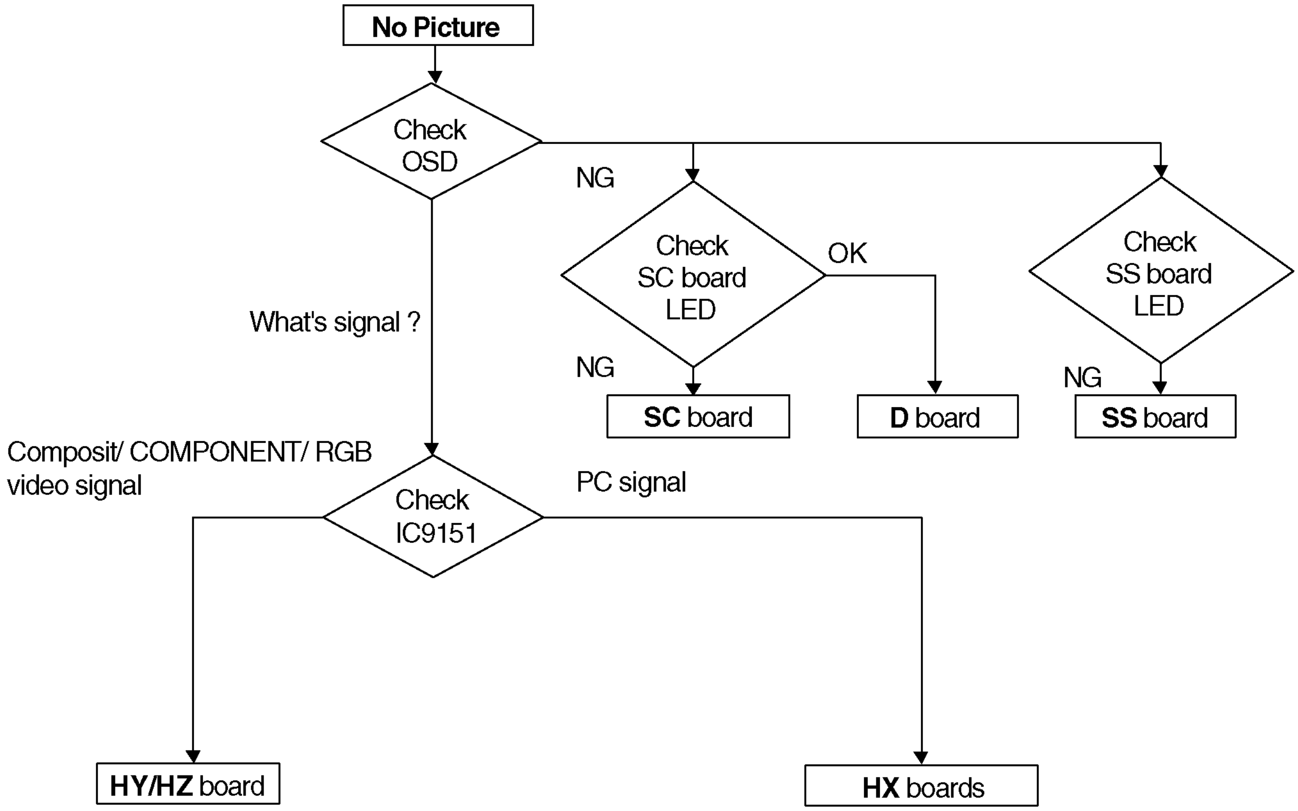
1. No lit


Does turn the power LED?
Check
PF board
OK
But no AC supplied
Check AC power code
or power source
NG
Check
Fuse F900, F901
OK
Check
P board

Drive circuits LED indicator


SC board
D6583
SS board
D6760
D6764
(15V detection)

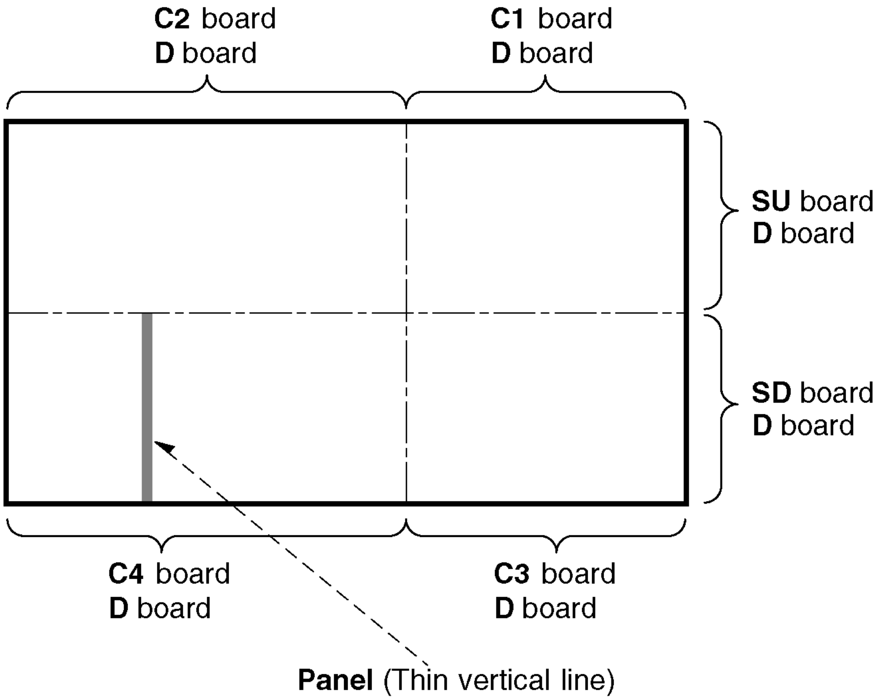
11.3. No Picture



No Picture
Check OSD
NG
Check SC board LED
OK
Check SS board LED
What's signal ?
NG
SC board
D board
NG
SS board
Composit/ COMPONENT/ RGB video signal
Check IC9151
PC signal
HY/HZ board
HX boards

11.4. Local screen failure

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.



C2 board
D board
C1 board
D board
SU board
D board
SD board
D board
C4 board
D board
C3 board
D board
Panel (Thin vertical line)

<Local screen failure chart>

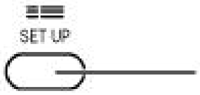
Fig - 1

12 Option Setting

12.1. How to access and setting

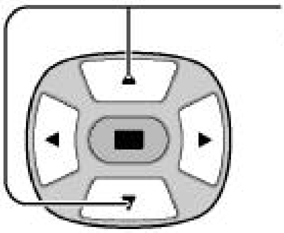
How to access the Option menu

1

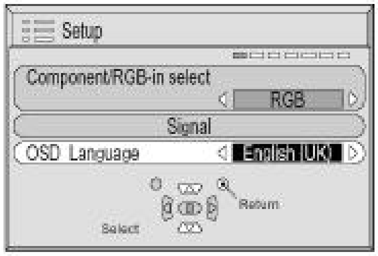


Press to display the Setup menu.

2



Press to select OSD Language.

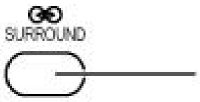


Component/RGB-in select RGB

Signal

OSD Language English (UK)

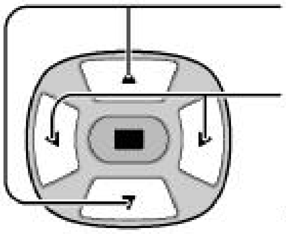
3



Press down for more than 3 seconds to display the Option menu.

Setting the Option menus

1

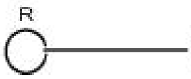


Press to select the desired item.

Press to select the desired function.

The option menu will disappear 60 seconds after operation.

2



Press to exit Option menu.

12.2. Contents of Option Menu

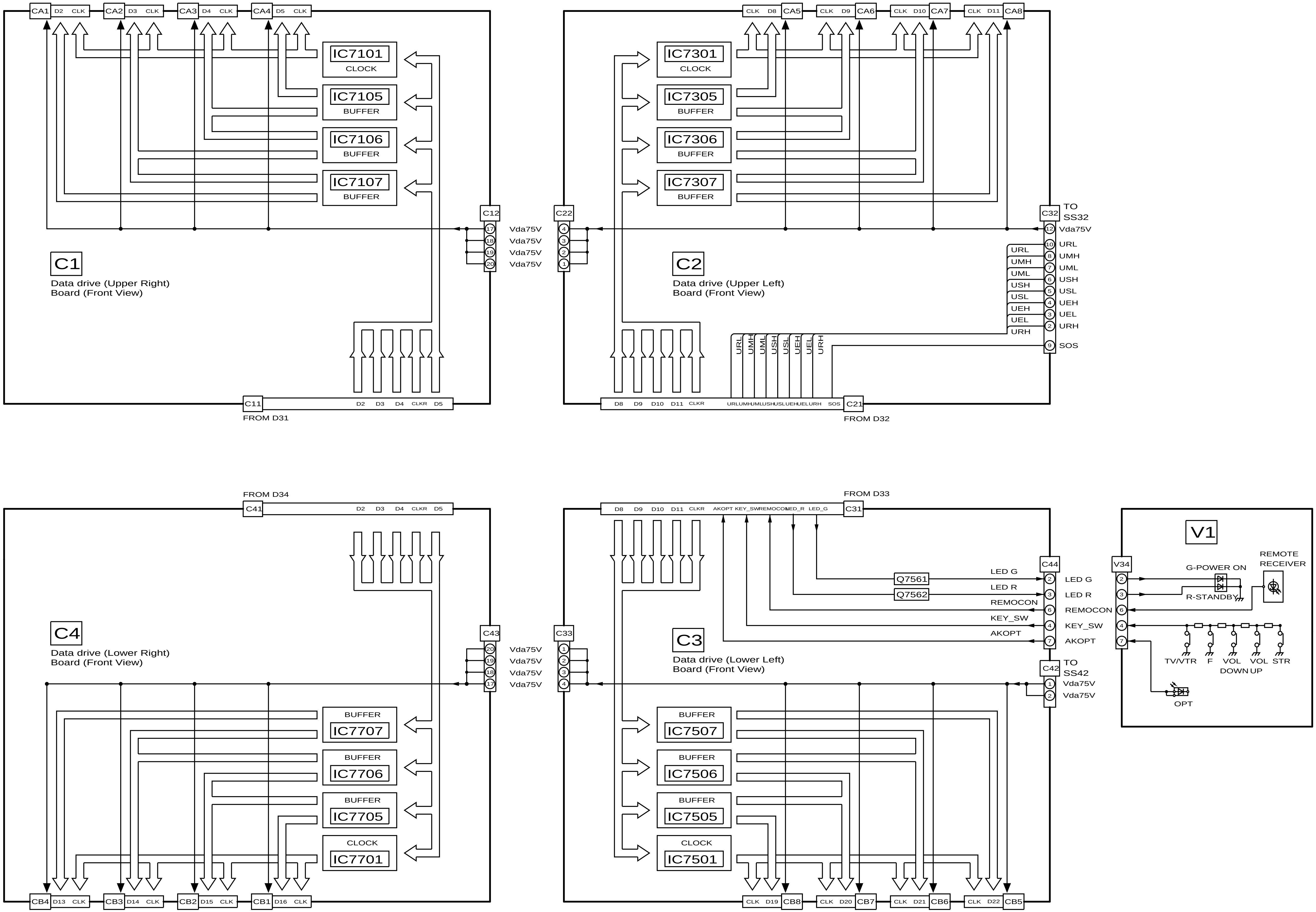
This chassis series have special function and operation setting facility called Option Menu. This Option Menu is useful for special function required customers. This should be set at the installation stage. The end user could not set or change these because of hidden On screen menu.

Option menus	default setting	Contents
Off-timer function	Enable	Off-timer operation Enable/Disable.
On Screen display	On	Enable/Disable to display input mode indication after power on and no signal indication.
Initial Input	Off	Sets the initial input mode when the power is turned on . Allow input mode selection while power is on.
Initial VOL. level	Off	Sets the initial volume level when the power is turned on. Allow Volume control while power is on.
Maximum VOL. Level	Off	Sets the maximum volume to desired level. Volume cannot exceed this level.
INPUT lock	Off	Fixes the input mode to AV, Component/RGB or PC. Can not change input mode by input selection key.
Button lock	Off	Enable/Disable front operation buttons (Input and/or volume up/down)
Studio W/B	Off	Set warm mode color temperature to 3,200 Kelvin.
Remocon User Level	Off	Remote key invalidation. Off : Valid key is all key of remote. User1 : Valid key are only Stand-by (ON/OFF), Input, Status, Surround, Sound mute On/Off, and volume adjustment. User2 : Valid key is only Stand-by (ON/OFF). User3 : All keys are null and void
ID Select	0 to 100	Set ID number from 001 to 100.
Remote ID	Off	Remote ID function On/Off. (While the Remote ID on, standard remote function can not control the unit.)
Serial	Off	Serial ID function On/Off
Slot power	Off	Sets the slot power mode the power is turned on. Allow Optional Terminal Board insert Slots while power is on.

Note :

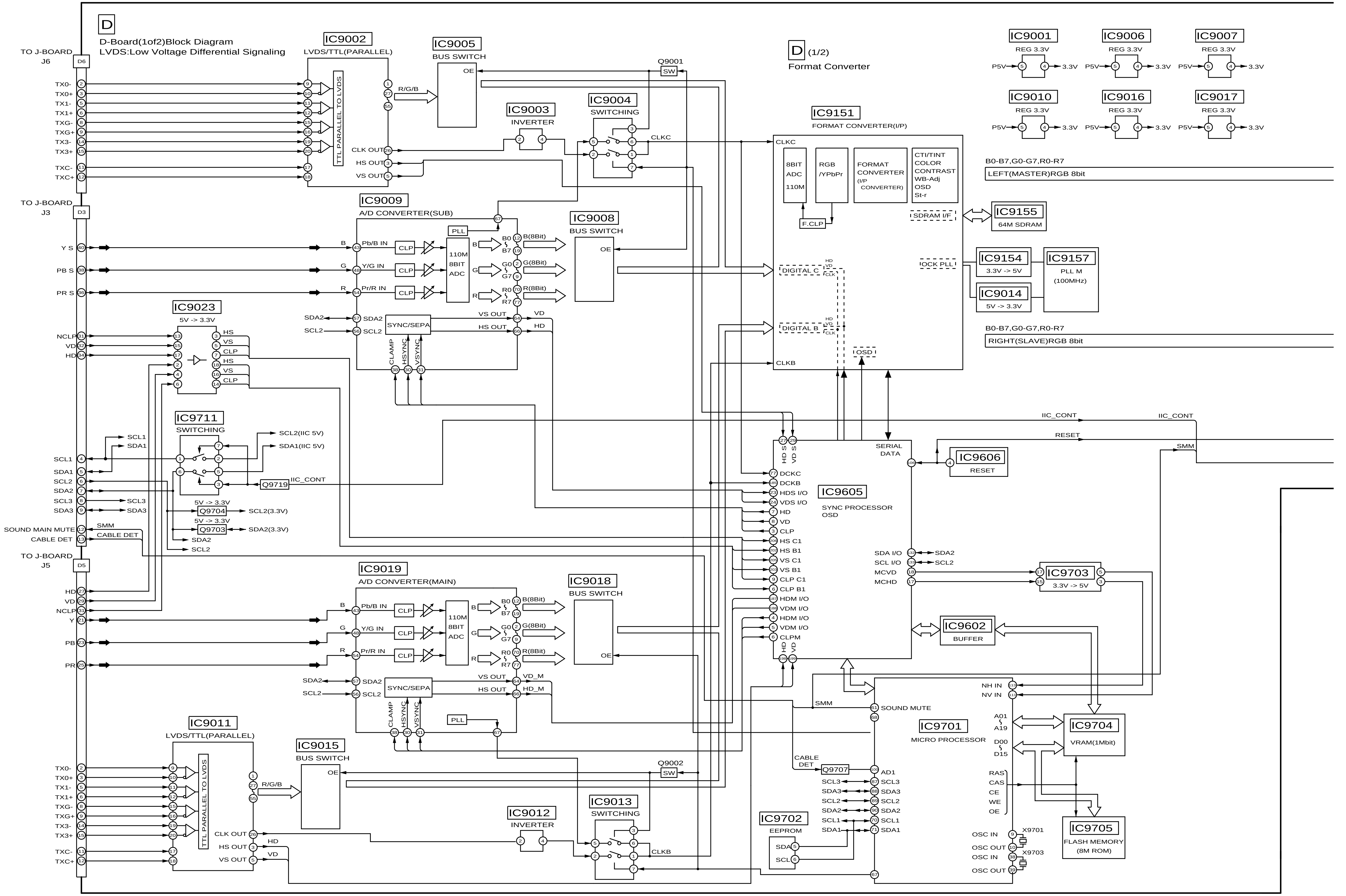
How to set Remocon User Level and Remote ID off

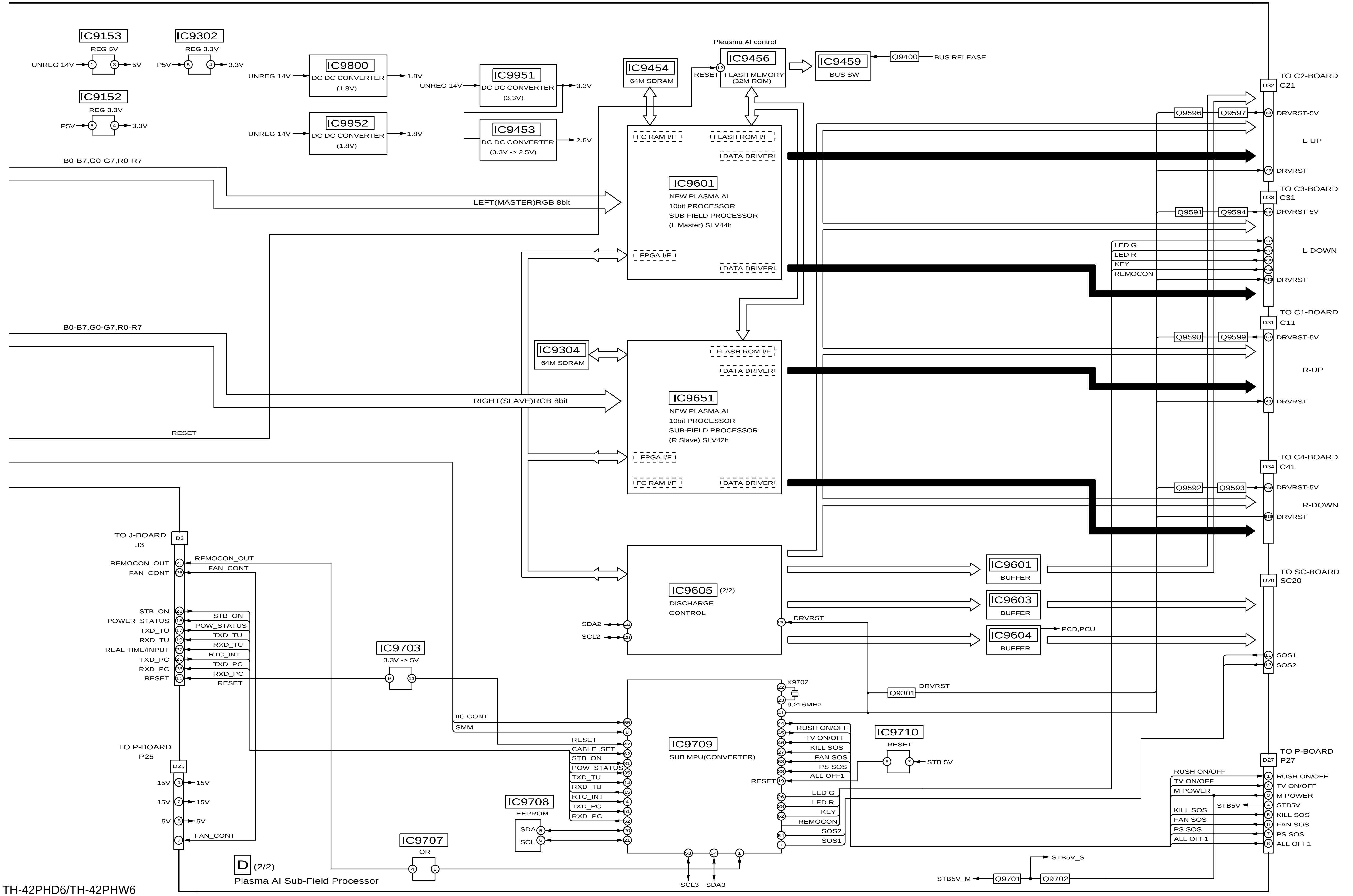
1. Access service mode (CAT-mode) and press SET UP key on remote.
2. Accsess option menu.
3. Change Remocon User Level and/ or Remote ID set to Off.


CA1 D2 CLK
CA2 D3 CLK
CA3 D4 CLK
CA4 D5 CLK
IC7101
CLOCK
IC7105
BUFFER
IC7106
BUFFER
IC7107
BUFFER
C12
17 Vda75V
18 Vda75V
19 Vda75V
20 Vda75V
C1
Data drive (Upper Right)
Board (Front View)
C11
D2 D3 D4 CLKR D5
FROM D31
CLK D8 CA5
CLK D9 CA6
CLK D10 CA7
CLK D11 CA8
IC7301
CLOCK
IC7305
BUFFER
IC7306
BUFFER
IC7307
BUFFER
C22
4 3 2 1
C2
Data drive (Upper Left)
Board (Front View)
C32
TO
SS32
12 Vda75V
10 URL
8 UMH
7 UML
6 USH
5 USL
4 UEH
3 UEL
2 URH
9 SOS
URL UMH UML USH USL UEH UEL URH
D8 D9 D10 D11 CLKR
URL UMH UML USH USL UEH UEL URH SOS
C21
FROM D32
FROM D34
C41
D2 D3 D4 CLKR D5
C43
20 Vda75V
19 Vda75V
18 Vda75V
17 Vda75V
C4
Data drive (Lower Right)
Board (Front View)
BUFFER
IC7707
BUFFER
IC7706
BUFFER
IC7705
CLOCK
IC7701
CB4 D13 CLK
CB3 D14 CLK
CB2 D15 CLK
CB1 D16 CLK
FROM D33
D8 D9 D10 D11 CLKR AKOPT KEY_SW REMOCON LED_R LED_G
C31
C33
1 2 3 4
C44
Q7561
Q7562
LED G
LED R
REMOCON
KEY_SW
AKOPT
2 LED G
3 LED R
6 REMOCON
4 KEY_SW
7 AKOPT
C3
Data drive (Lower Left)
Board (Front View)
C42
TO
SS42
1 Vda75V
2 Vda75V
BUFFER
IC7507
BUFFER
IC7506
BUFFER
IC7505
CLOCK
IC7501
CLK D19 CB8
CLK D20 CB7
CLK D21 CB6
CLK D22 CB5
V1
V34
2 3 6 4 7
G-POWER ON
R-STANDBY
REMOTE
RECEIVER
TV/VTR
F
VOL
DOWN
VOL
UP
STR
OPT

TH-42PHD6/TH-42PHW6
C1-BOARD, C2-BOARD, C3-BOARD, C4-BOARD and V1-BOARD Block Diagram

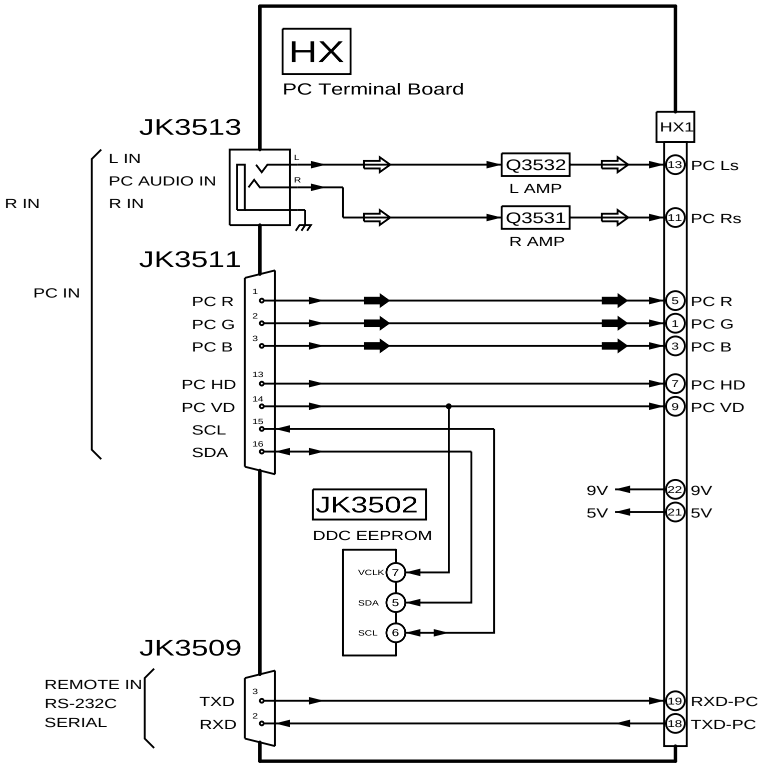
TH-42PHD6/TH-42PHW6
C1-BOARD, C2-BOARD, C3-BOARD, C4-BOARD and V1-BOARD Block Diagram

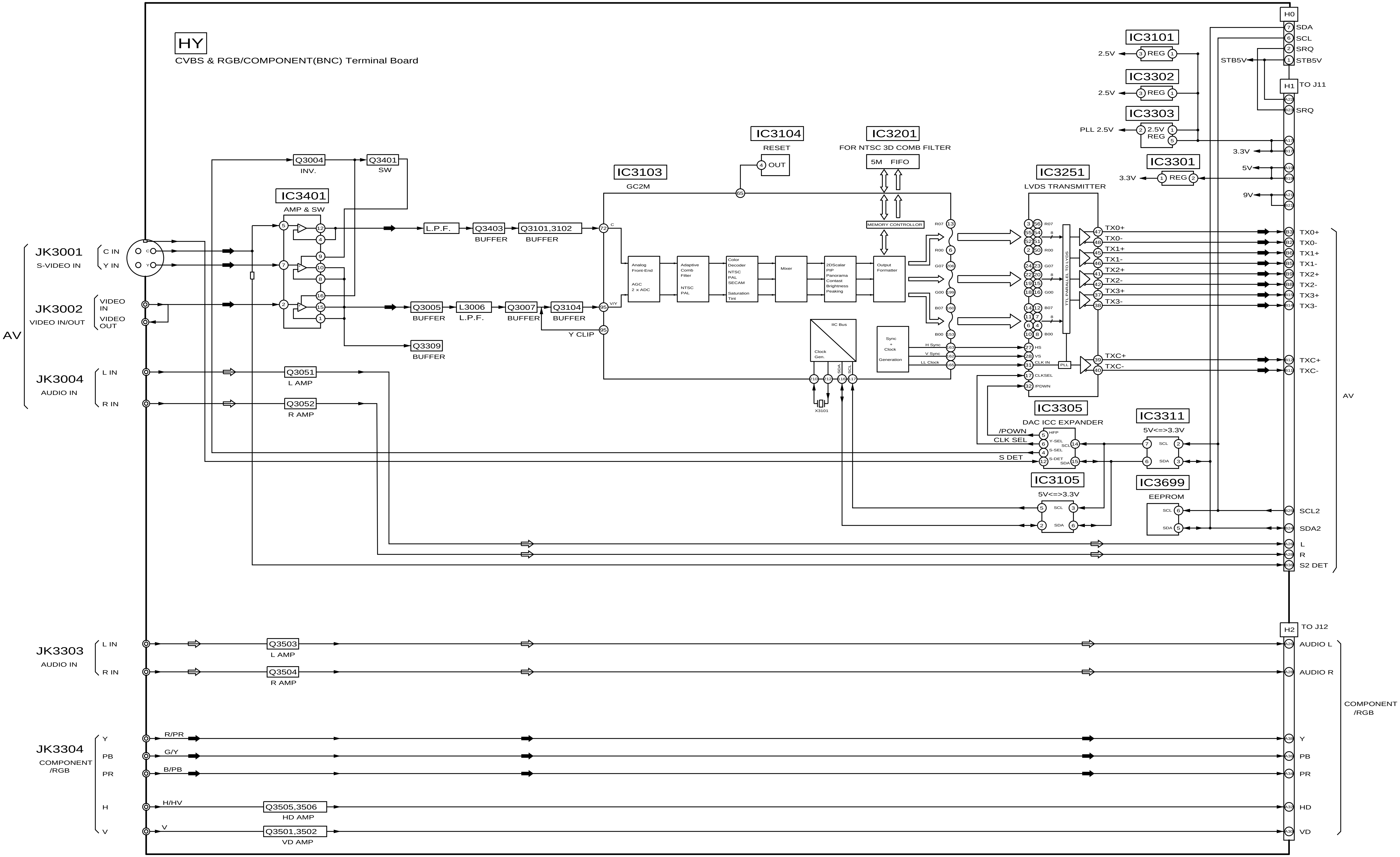

D
D-Board(1of2)Block Diagram
LVDS:Low Voltage Differential Signaling
D (1/2)
Format Converter
TO J-BOARD J6
D6
TX0- TX0+ TX1- TX1+ TXG- TXG+ TX3- TX3+ TXC- TXC+
IC9002
LVDS/TTL(PARALLEL)
TTL PARALLEL TO LVDS
CLK OUT
HS OUT
VS OUT
R/G/B
IC9005
BUS SWITCH
OE
Q9001
SW
IC9003
INVERTER
IC9004
SWITCHING
CLKC
TO J-BOARD J3
D3
Y S
PB S
PR S
IC9009
A/D CONVERTER(SUB)
PLL
Pb/B IN
Y/G IN
Pr/R IN
CLP
110M 8BIT ADC
B0 ~ B7 B(8Bit)
G0 ~ G7 G(8Bit)
R0 ~ R7 R(8Bit)
SDA2
SCL2
SYNC/SEPA
VS OUT
HS OUT
VD
HD
CLAMP
HSYNC
VSYNC
IC9008
BUS SWITCH
OE
IC9023
5V -> 3.3V
NCLP VD HD
HS VS CLP
IC9711
SWITCHING
SCL1 SDA1
SCL2(IIC 5V)
SDA1(IIC 5V)
Q9719
IIC_CONT
SCL1 SDA1 SCL2 SDA2 SCL3 SDA3
SOUND MAIN MUTE
CABLE DET
SMM
5V -> 3.3V
Q9704
SCL2(3.3V)
Q9703
SDA2(3.3V)
TO J-BOARD J5
D5
HD VD NCLP Y PB PR
IC9019
A/D CONVERTER(MAIN)
IC9018
BUS SWITCH
VD_M
HD_M
IC9011
LVDS/TTL(PARALLEL)
IC9015
BUS SWITCH
Q9002
IC9012
INVERTER
IC9013
SWITCHING
CLKB
IC9001 IC9006 IC9007 IC9010 IC9016 IC9017
REG 3.3V
P5V
3.3V
IC9151
FORMAT CONVERTER(I/P)
CLKC
8BIT ADC 110M
RGB /YPbPr
FORMAT CONVERTER (I/P CONVERTER)
CTI/TINT COLOR CONTRAST WB-Adj OSD St-r
F.CLP
SDRAM I/F
IC9155
64M SDRAM
DIGITAL C
DIGITAL B
HD VD CLK
OCK PLL
IC9154
3.3V -> 5V
IC9014
5V -> 3.3V
IC9157
PLL M (100MHz)
OSD
CLKB
B0-B7,G0-G7,R0-R7
LEFT(MASTER)RGB 8bit
RIGHT(SLAVE)RGB 8bit
IIC_CONT
RESET
SMM
SERIAL DATA
IC9606
RESET
IC9605
SYNC PROCESSOR OSD
HD S VD S
DCKC DCKB HDS I/O VDS I/O HD VD CLP HS C1 HS B1 VS C1 VS B1 CLP C1 CLP B1 HDM I/O VDM I/O HDM I/O VDM I/O CLPM
SDA I/O SCL I/O MCVD MCHD
IC9703
3.3V -> 5V
IC9602
BUFFER
IC9701
MICRO PROCESSOR
NH IN
NV IN
SOUND MUTE
AD1
SCL3 SDA3 SCL2 SDA2 SCL1 SDA1
CABLE DET
Q9707
IC9702
EEPROM
SDA SCL
A01 ~ A19
D00 ~ D15
RAS CAS CE WE OE
OSC IN OSC OUT
X9701 X9703
IC9704
VRAM(1Mbit)
IC9705
FLASH MEMORY (8M ROM)

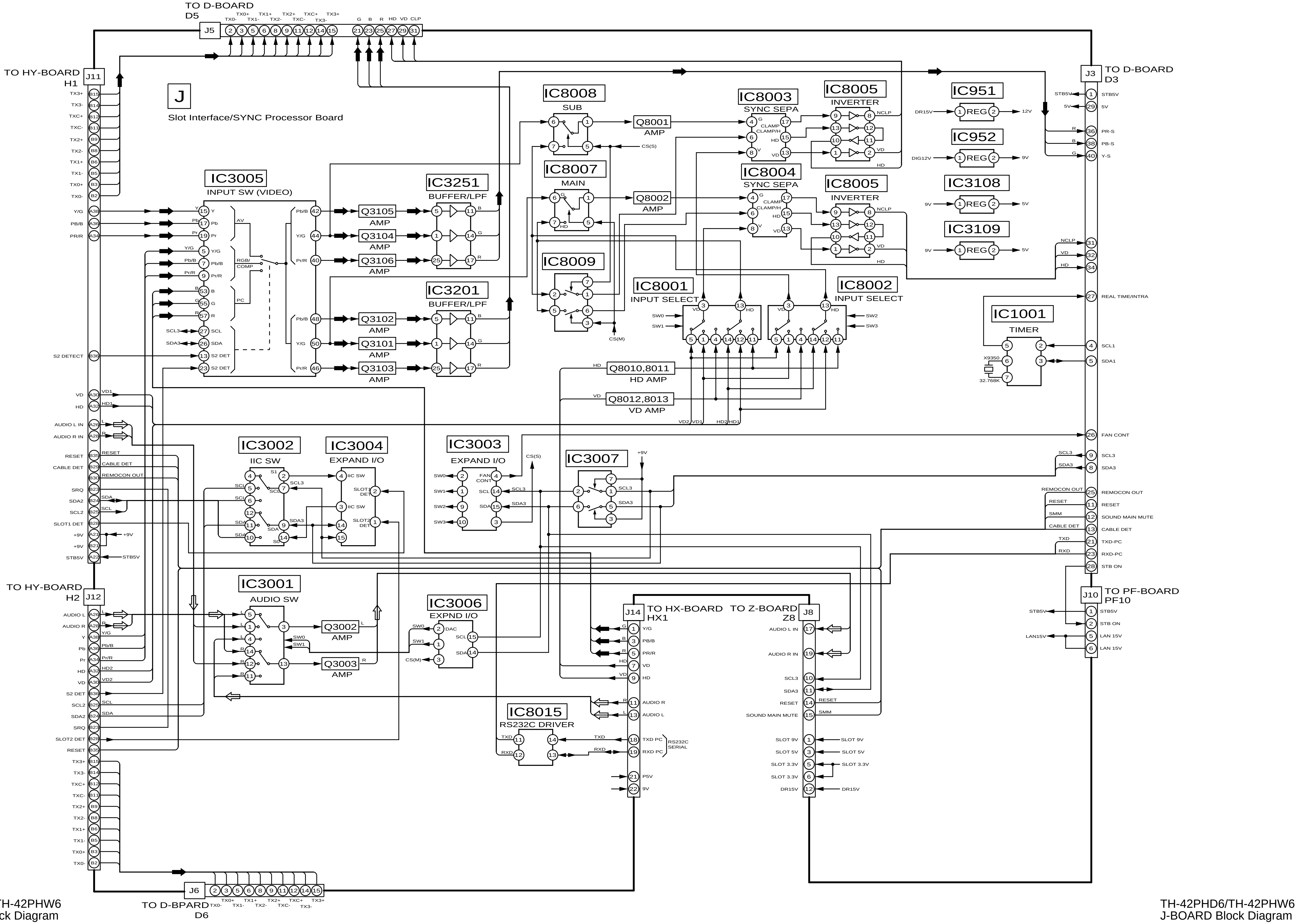

IC9153
REG 5V
UNREG 14V
5V
IC9302
REG 3.3V
P5V
3.3V
IC9152
REG 3.3V
P5V
3.3V
IC9800
DC DC CONVERTER (1.8V)
UNREG 14V
1.8V
IC9952
DC DC CONVERTER (1.8V)
UNREG 14V
1.8V
IC9951
DC DC CONVERTER (3.3V)
UNREG 14V
3.3V
IC9453
DC DC CONVERTER (3.3V -> 2.5V)
2.5V
IC9454
64M SDRAM
Pleasma AI control
IC9456
RESET
FLASH MEMORY (32M ROM)
IC9459
BUS SW
Q9400
BUS RELEASE
B0-B7,G0-G7,R0-R7
LEFT(MASTER)RGB 8bit
FC RAM I/F
FLASH ROM I/F
DATA DRIVER
IC9601
NEW PLASMA AI
10bit PROCESSOR
SUB-FIELD PROCESSOR
(L Master) SLV44h
FPGA I/F
DATA DRIVER
B0-B7,G0-G7,R0-R7
IC9304
64M SDRAM
FLASH ROM I/F
DATA DRIVER
IC9651
NEW PLASMA AI
10bit PROCESSOR
SUB-FIELD PROCESSOR
(R Slave) SLV42h
RIGHT(SLAVE)RGB 8bit
RESET
FPGA I/F
FC RAM I/F
DATA DRIVER
TO C2-BOARD
D32
C21
Q9596
Q9597
B3
DRVRST-5V
L-UP
A3
DRVRST
TO C3-BOARD
D33
C31
Q9591
Q9594
DRVRST-5V
L-DOWN
LED G
LED R
KEY
REMOCON
DRVRST
TO C1-BOARD
D31
C11
Q9598
Q9599
DRVRST-5V
R-UP
DRVRST
TO C4-BOARD
D34
C41
Q9592
Q9593
DRVRST-5V
R-DOWN
DRVRST
TO SC-BOARD
D20
SC20
IC9605 (2/2)
DISCHARGE
CONTROL
SDA2
SCL2
DRVRST
IC9601
BUFFER
IC9603
BUFFER
IC9604
BUFFER
PCD,PCL
SOS1
SOS2
Q9301
DRVRST
TO J-BOARD
J3
D3
REMOCON_OUT
FAN_CONT
STB_ON
POWER_STATUS
TXD_TU
RXD_TU
REAL TIME/INPUT
TXD_PC
RXD_PC
RESET
REMOCON_OUT
FAN_CONT
STB_ON
POW_STATUS
TXD_TU
RXD_TU
RTC_INT
TXD_PC
RXD_PC
RESET
IC9703
3.3V -> 5V
IIC CONT
SMM
X9702
9.216MHz
IC9709
SUB MPU(CONVERTER)
RESET
CABLE_SET
STB_ON
POW_STATUS
TXD_TU
RXD_TU
RTC_INT
TXD_PC
RXD_PC
RUSH ON/OFF
TV ON/OFF
KILL SOS
FAN SOS
PS SOS
ALL OFF1
RESET
LED G
LED R
KEY
REMOCON
SOS2
SOS1
IC9710
RESET
STB 5V
TO P-BOARD
P25
D25
15V
15V
5V
FAN_CONT
IC9708
EEPROM
SDA
SCL
IC9707
OR
SCL3
SDA3
TO P-BOARD
P27
D27
RUSH ON/OFF
TV ON/OFF
M POWER
STB5V
KILL SOS
FAN SOS
PS SOS
ALL OFF1
STB5V_S
STB5V_M
Q9701
Q9702

D (2/2)
Plasma AI Sub-Field Processor

TH-42PHD6/TH-42PHW6
D-BOARD (2 of 2) Block Diagram

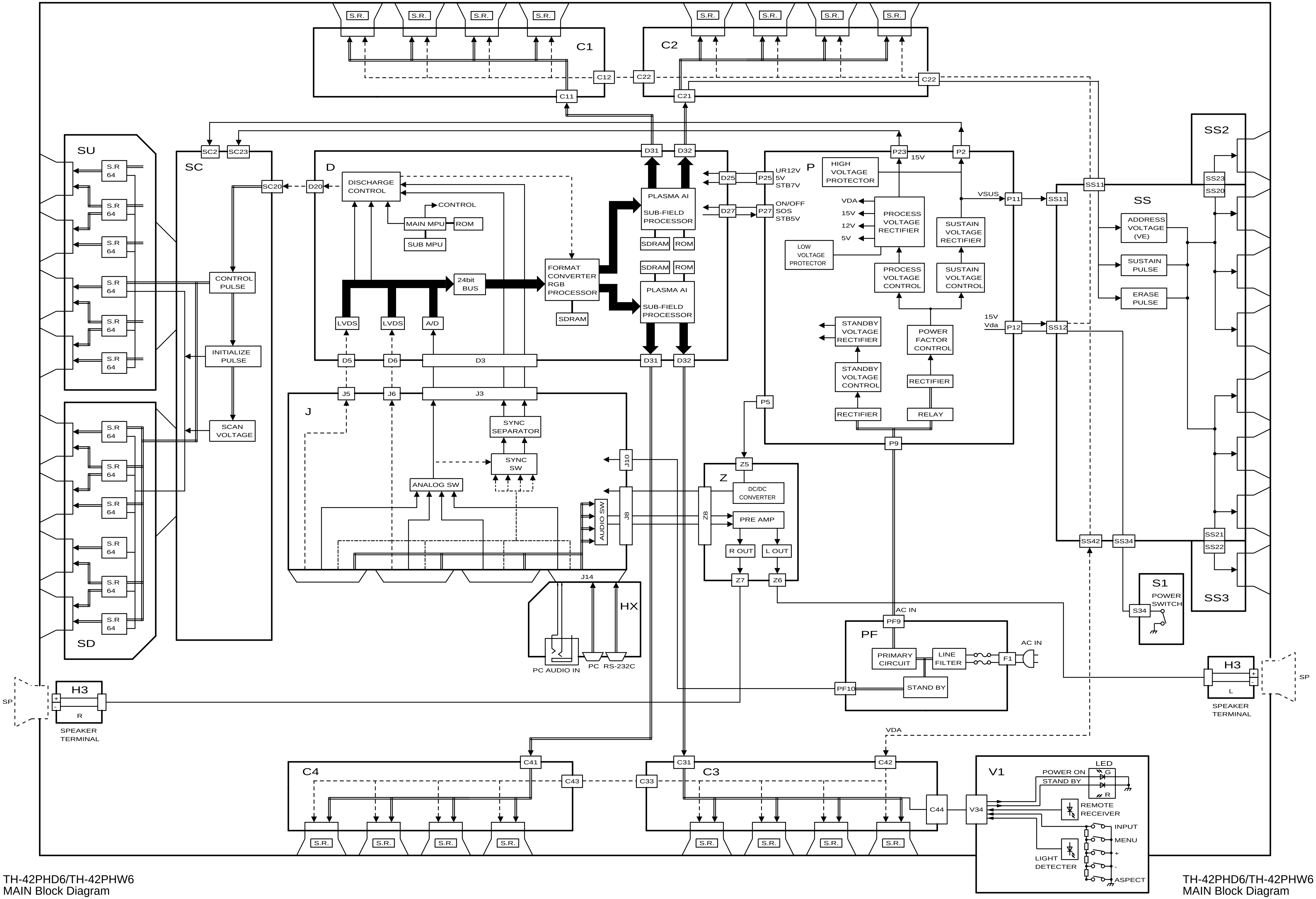

HX
PC Terminal Board
JK3513
L IN
PC AUDIO IN
R IN
R IN
L
R
Q3532
L AMP
Q3531
R AMP
HX1
13 PC Ls
11 PC Rs
JK3511
PC IN
PC R
PC G
PC B
PC HD
PC VD
SCL
SDA
1
2
3
13
14
15
16
5 PC R
1 PC G
3 PC B
7 PC HD
9 PC VD
9V
22 9V
5V
21 5V
JK3502
DDC EEPROM
VCLK 7
SDA 5
SCL 6
JK3509
REMOTE IN
RS-232C
SERIAL
TXD
RXD
3
2
19 RXD-PC
18 TXD-PC


HY
CVBS & RGB/COMPONENT(BNC) Terminal Board
AV
JK3001
S-VIDEO IN
C IN
Y IN
JK3002
VIDEO IN/OUT
VIDEO IN
VIDEO OUT
JK3004
AUDIO IN
L IN
R IN
Q3004
INV.
Q3401
SW
IC3401
AMP & SW
L.P.F.
Q3403
BUFFER
Q3101,3102
BUFFER
Q3005
BUFFER
L3006
L.P.F.
Q3007
BUFFER
Q3104
BUFFER
Y CLIP
Q3309
BUFFER
Q3051
L AMP
Q3052
R AMP
IC3103
GC2M
IC3104
RESET
OUT
IC3201
FOR NTSC 3D COMB FILTER
5M FIFO
MEMORY CONTROLLER
Analog Front-End
AGC
2 x ADC
Adaptive Comb Filter
NTSC
PAL
Color Decoder
NTSC
PAL
SECAM
Saturation
Tint
Mixer
2DScalar
PIP
Panorama
Contast
Brightness
Peaking
Output Formatter
IIC Bus
Clock Gen.
SDA
SCL
Sync + Clock Generation
H Sync
V Sync
LL Clock
X3101
R07
R00
G07
G00
B07
B00
HS
VS
CLK IN
CLKSEL
/PDWN
IC3251
LVDS TRANSMITTER
TTL PARALLEL TO LVDS
PLL
TX0+
TX0-
TX1+
TX1-
TX2+
TX2-
TX3+
TX3-
TXC+
TXC-
IC3101
REG
2.5V
IC3302
REG
2.5V
IC3303
2.5V REG
PLL 2.5V
IC3301
REG
3.3V
3.3V
5V
9V
STB5V
H0
SDA
SCL
SRQ
STB5V
H1
TO J11
SRQ
IC3305
DAC ICC EXPANDER
/POWN
CLK SEL
S DET
HFP
Y-SEL
S-SEL
S-DET
SCL
SDA
IC3311
5V<=>3.3V
IC3105
5V<=>3.3V
IC3699
EEPROM
SCL2
SDA2
L
R
S2 DET
JK3303
AUDIO IN
L IN
R IN
Q3503
L AMP
Q3504
R AMP
H2
TO J12
AUDIO L
AUDIO R
COMPONENT /RGB
JK3304
COMPONENT /RGB
Y
PB
PR
H
V
R/PR
G/Y
B/PB
H/HV
Q3505,3506
HD AMP
Q3501,3502
VD AMP
HD
VD


TO D-BOARD
D5
J5
TX0- TX0+ TX1- TX1+ TX2- TX2+ TXC- TXC+ TX3- TX3+
G B R HD VD CLP
TO HY-BOARD
H1
J11
J
Slot Interface/SYNC Processor Board
IC3005
INPUT SW (VIDEO)
IC3251
BUFFER/LPF
IC3201
BUFFER/LPF
Q3105
Q3104
Q3106
Q3102
Q3101
Q3103
AMP
IC8008
SUB
IC8007
MAIN
IC8009
Q8001
Q8002
IC8003
SYNC SEPA
IC8004
SYNC SEPA
IC8005
INVERTER
CLAMP
CLAMP/H
NCLP
IC8001
INPUT SELECT
IC8002
INPUT SELECT
Q8010,8011
HD AMP
Q8012,8013
VD AMP
CS(S)
CS(M)
SW0 SW1 SW2 SW3
IC951
IC952
IC3108
IC3109
REG
DR15V
12V
DIG12V
9V
5V
IC1001
TIMER
X9350
32.768K
TO D-BOARD
D3
J3
STB5V
PR-S
PB-S
Y-S
NCLP
VD
HD
REAL TIME/INTRA
SCL1
SDA1
FAN CONT
SCL3
SDA3
REMOCON OUT
RESET
SOUND MAIN MUTE
CABLE DET
TXD-PC
RXD-PC
STB ON
TO PF-BOARD
PF10
J10
LAN 15V
LAN15V
Y/G
PB/B
PR/R
S2 DETECT
AUDIO L IN
AUDIO R IN
SRQ
SDA2
SCL2
SLOT1 DET
+9V
IC3002
IIC SW
IC3004
EXPAND I/O
SLOT1 DET
SLOT2 DET
IC3003
EXPAND I/O
FAN CONT
IC3007
TO HY-BOARD
H2
J12
AUDIO L
AUDIO R
SLOT2 DET
IC3001
AUDIO SW
Q3002
Q3003
IC3006
EXPND I/O
DAC
IC8015
RS232C DRIVER
TO HX-BOARD
HX1
J14
TXD PC
RXD PC
RS232C SERIAL
P5V
TO Z-BOARD
Z8
J8
SLOT 9V
SLOT 5V
SLOT 3.3V
DR15V
J6
TO D-BPARD
D6

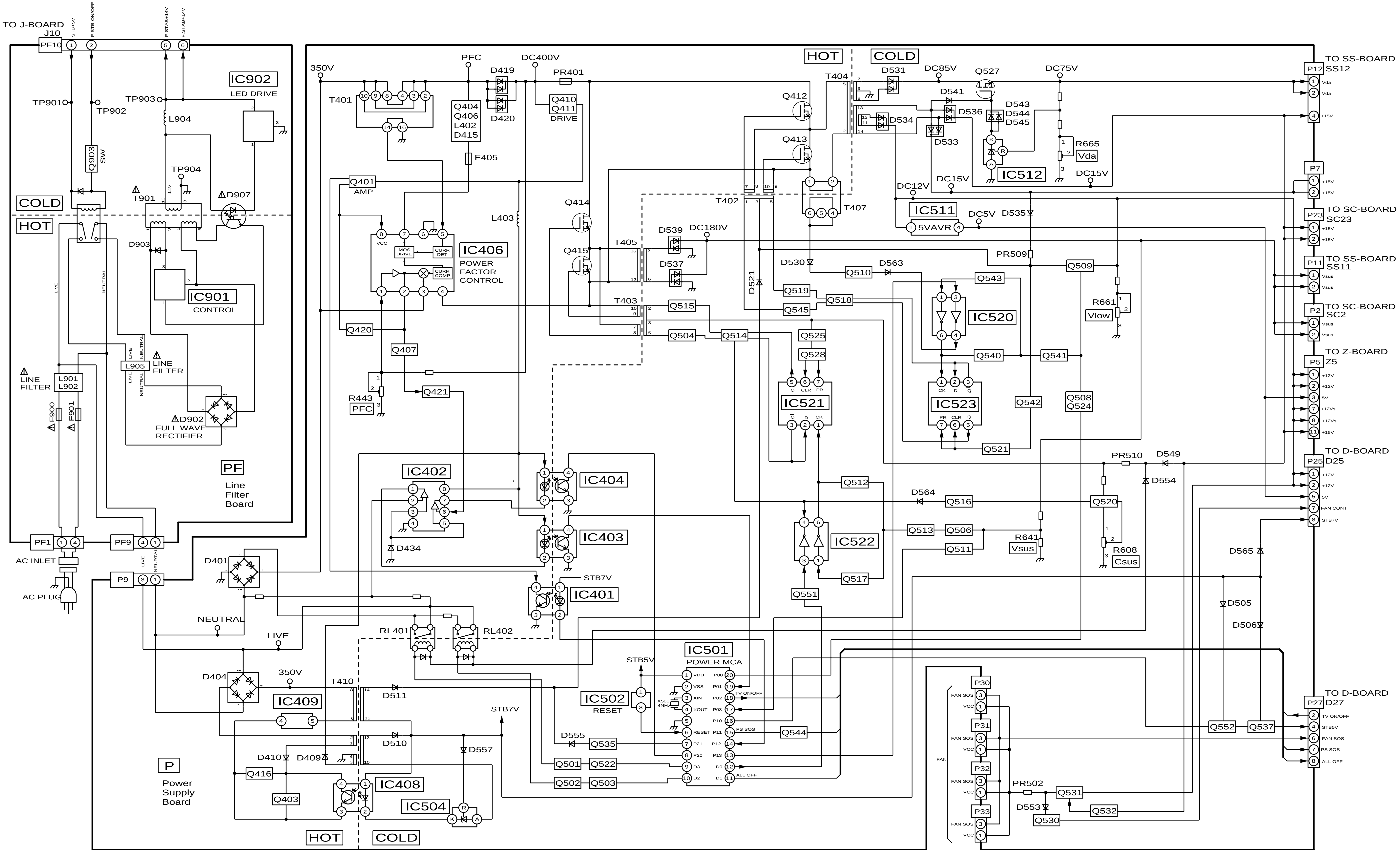
TH-42PHD6/TH-42PHW6
J-BOARD Block Diagram

TH-42PHD6/TH-42PHW6
J-BOARD Block Diagram

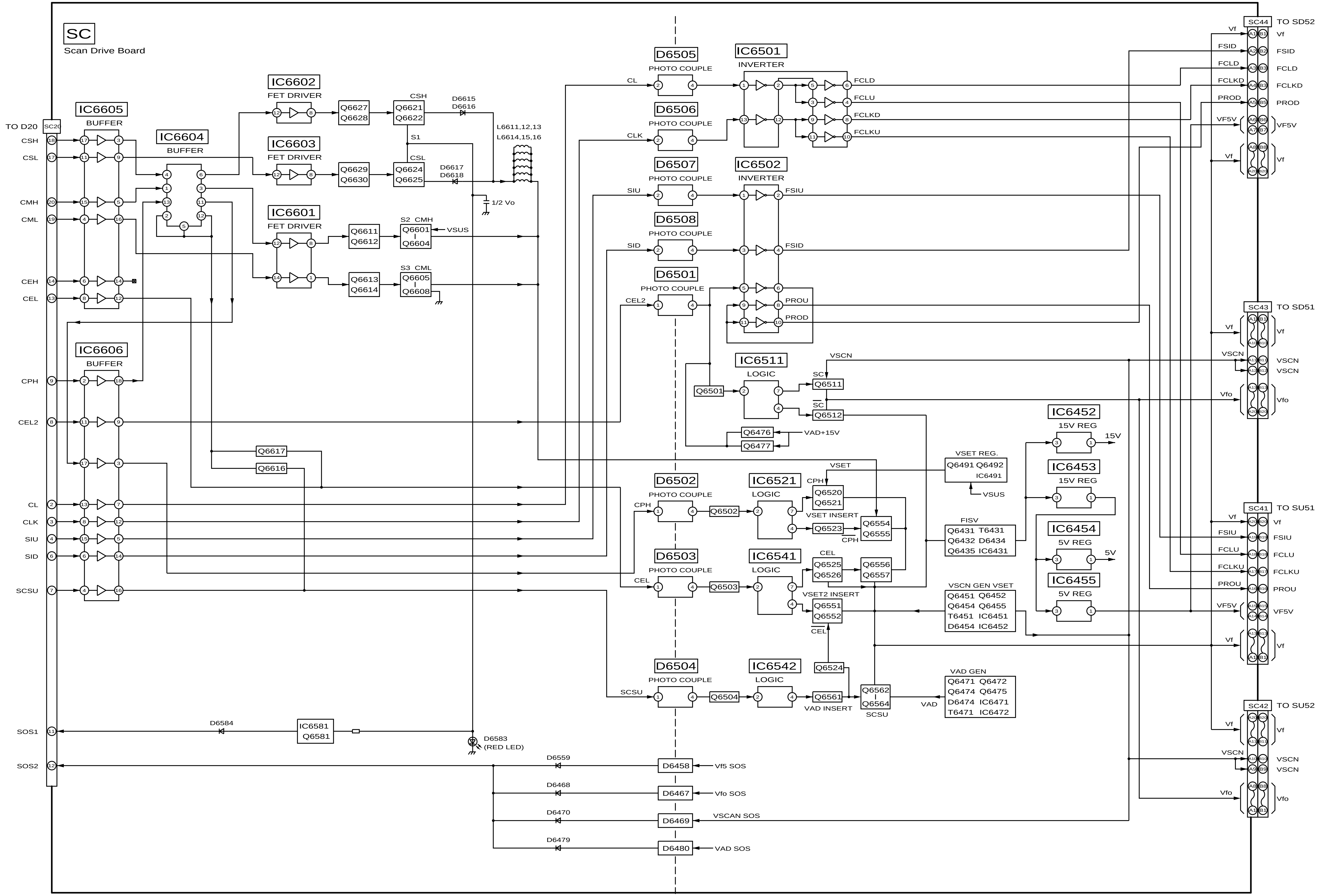

S.R.
C1
C11
C12
C2
C21
C22
C22
SU
S.R 64
SC
SC2
SC23
SC20
CONTROL PULSE
INITIALIZE PULSE
SCAN VOLTAGE
SD
D
D20
DISCHARGE CONTROL
CONTROL
MAIN MPU
ROM
SUB MPU
24bit BUS
LVDS
LVDS
A/D
FORMAT CONVERTER RGB PROCESSOR
SDRAM
D31
D32
PLASMA AI SUB-FIELD PROCESSOR
SDRAM
ROM
D25
D27
D5
D6
D3
J5
J6
J3
J
SYNC SEPARATOR
SYNC SW
ANALOG SW
J10
J8
AUDIO SW
J14
HX
PC AUDIO IN
PC
RS-232C
Z
Z5
DC/DC CONVERTER
Z8
PRE AMP
R OUT
L OUT
Z7
Z6
P
P25
UR12V
5V
STB7V
P27
ON/OFF
SOS
STB5V
P23
15V
P2
HIGH VOLTAGE PROTECTOR
VDA
15V
12V
5V
PROCESS VOLTAGE RECTIFIER
VSUS
SUSTAIN VOLTAGE RECTIFIER
LOW VOLTAGE PROTECTOR
PROCESS VOLTAGE CONTROL
SUSTAIN VOLTAGE CONTROL
STANDBY VOLTAGE RECTIFIER
POWER FACTOR CONTROL
15V
Vda
P11
P12
STANDBY VOLTAGE CONTROL
RECTIFIER
RECTIFIER
RELAY
P5
P9
SS2
SS23
SS20
SS11
SS11
SS
ADDRESS VOLTAGE (VE)
SUSTAIN PULSE
ERASE PULSE
SS12
SS12
SS21
SS22
SS42
SS34
SS3
S1
POWER SWITCH
S34
AC IN
PF9
PF
PRIMARY CIRCUIT
LINE FILTER
F1
AC IN
STAND BY
PF10
H3
SPEAKER TERMINAL
SP
+
-
R
L
VDA
C41
C43
C4
C31
C33
C42
C3
C44
V34
V1
LED
POWER ON
STAND BY
G
R
REMOTE RECEIVER
INPUT
MENU
+
-
ASPECT
LIGHT DETECTER

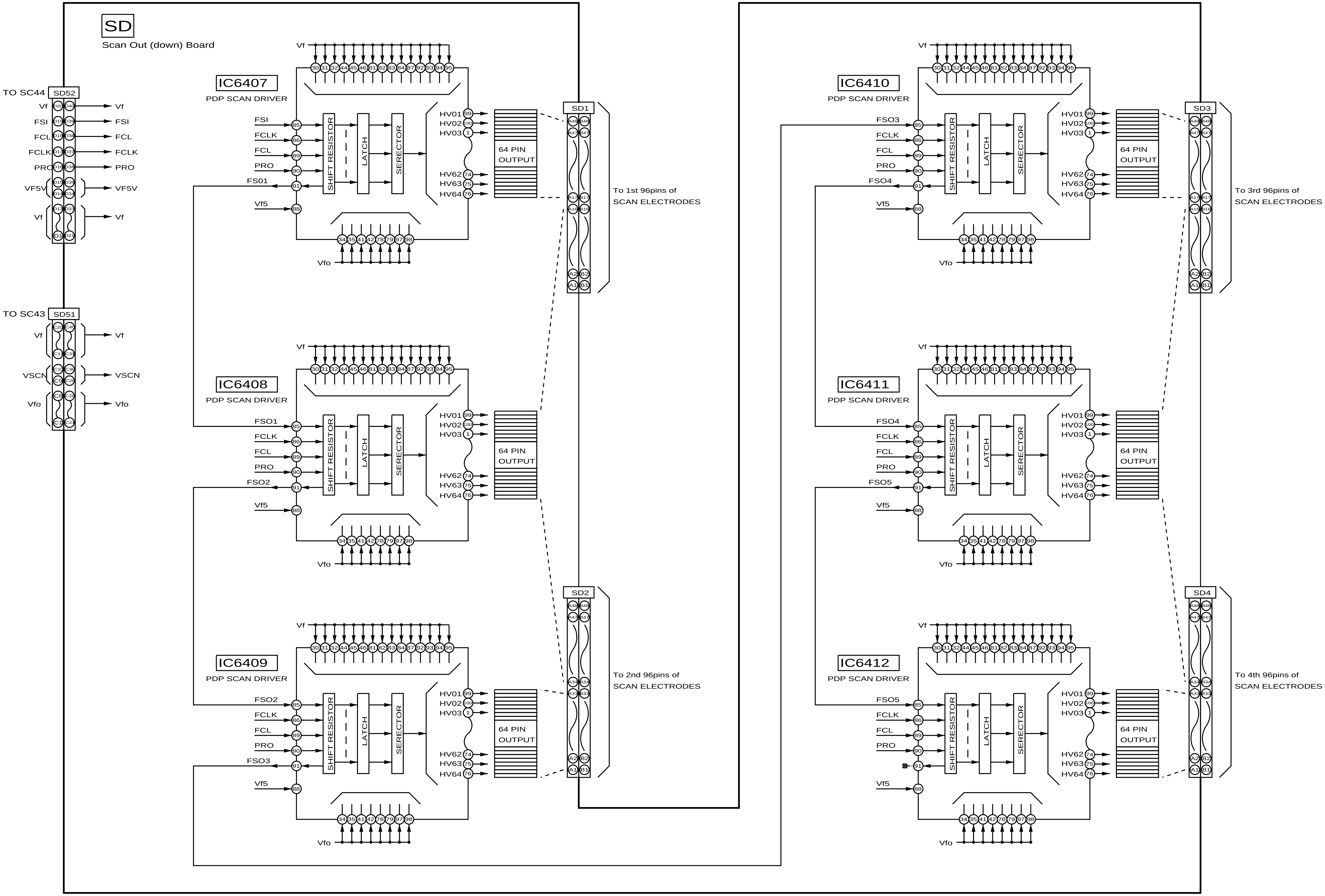
TH-42PHD6/TH-42PHW6
MAIN Block Diagram

TH-42PHD6/TH-42PHW6
MAIN Block Diagram



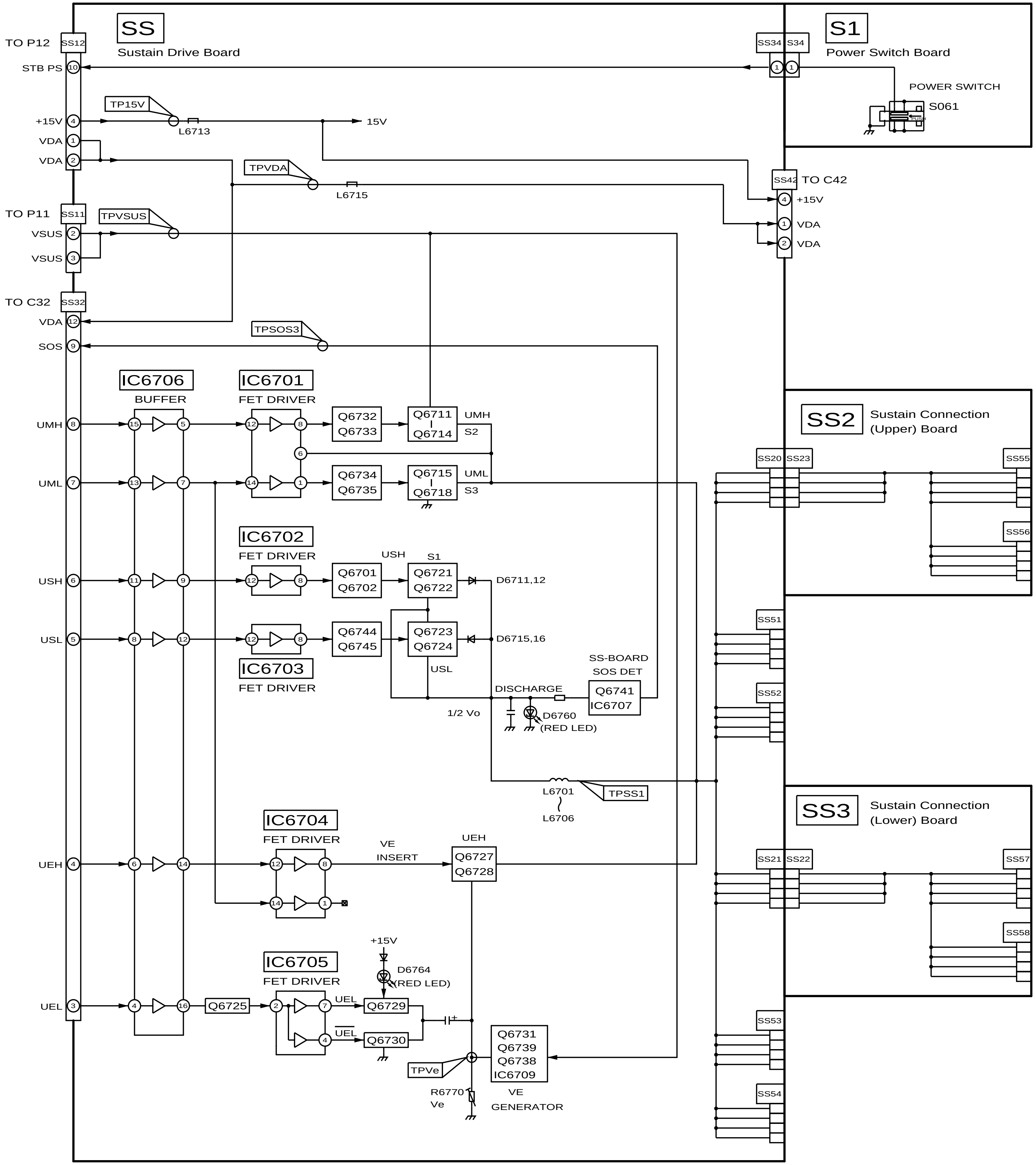
TO J-BOARD
J10
PF10
STB+5V
F-STB ON/OFF
F-STAB+14V
IC902
LED DRIVE
TP901
TP902
TP903
L904
Q903
SW
TP904
T901
D907
COLD
HOT
D903
IC901
CONTROL
LINE FILTER
L901
L902
L905
F900
F901
D902
FULL WAVE RECTIFIER
LIVE
NEUTRAL
PF
Line Filter Board
PF1
PF9
AC INLET
AC PLUG
P9
D401
NEUTRAL
LIVE
350V
PFC
DC400V
T401
D419
D420
PR401
Q404
Q406
L402
D415
Q410
Q411
DRIVE
F405
Q401
AMP
IC406
POWER FACTOR CONTROL
VCC
MOS DRIVE
CURR DET
CURR COMP
L403
Q414
Q415
T405
T403
Q420
Q407
R443
PFC
Q421
IC402
D434
IC404
IC403
IC401
STB7V
RL401
RL402
D404
350V
T410
D511
D510
IC409
D410
D409
Q416
Q403
IC408
IC504
D557
STB7V
P
Power Supply Board
HOT
COLD
HOT
COLD
T404
D531
DC85V
Q527
DC75V
Q412
Q413
D541
D536
D534
D533
D543
D544
D545
IC512
R665
Vda
DC15V
DC12V
DC15V
T402
T407
IC511
5VAVR
DC5V
D535
D539
DC180V
D537
D530
D563
Q510
D521
Q519
Q545
Q518
Q515
Q504
Q514
Q525
Q528
IC521
CLR
PR
IC520
Q543
Q509
PR509
R661
Vlow
Q540
Q541
IC523
CK
Q521
Q542
Q508
Q524
PR510
D549
D554
Q512
D564
Q516
Q520
IC522
Q513
Q506
Q511
R641
Vsus
R608
Csus
Q517
Q551
D565
D505
D506
IC501
POWER MCA
STB5V
VDD
VSS
XIN
XOUT
RESET
P21
P20
D3
D2
P00
P01
P02
P03
P10
P11
P12
P13
D0
D1
TV ON/OFF
PS SOS
ALL OFF
X501 4NHz
IC502
RESET
Q544
D555
Q535
Q501
Q522
Q502
Q503
P30
P31
P32
P33
FAN SOS
VCC
FAN
PR502
D553
Q531
Q532
Q530
Q552
Q537
TO SS-BOARD
P12 SS12
Vda
+15V
P7
TO SC-BOARD
P23 SC23
TO SS-BOARD
P11 SS11
Vsus
TO SC-BOARD
P2 SC2
TO Z-BOARD
P5 Z5
+12V
5V
+12Vs
TO D-BOARD
P25 D25
FAN CONT
STB7V
TO D-BOARD
P27 D27
TV ON/OFF
STB5V
FAN SOS
PS SOS
ALL OFF


SC
Scan Drive Board
TO D20
SC20
CSH
CSL
CMH
CML
CEH
CEL
CPH
CEL2
CL
CLK
SIU
SID
SCSU
SOS1
SOS2
IC6605
BUFFER
IC6606
BUFFER
IC6604
BUFFER
IC6602
FET DRIVER
IC6603
FET DRIVER
IC6601
FET DRIVER
Q6627
Q6628
Q6629
Q6630
Q6611
Q6612
Q6613
Q6614
CSH
Q6621
Q6622
CSL
Q6624
Q6625
S1
S2 CMH
Q6601
Q6604
VSUS
S3 CML
Q6605
Q6608
D6615
D6616
D6617
D6618
L6611,12,13
L6614,15,16
1/2 Vo
Q6617
Q6616
D6584
IC6581
Q6581
D6583
(RED LED)
D6559
D6468
D6470
D6479
D6458
Vf5 SOS
D6467
Vfo SOS
D6469
VSCAN SOS
D6480
VAD SOS
D6505
PHOTO COUPLE
D6506
PHOTO COUPLE
D6507
PHOTO COUPLE
D6508
PHOTO COUPLE
D6501
PHOTO COUPLE
CEL2
IC6501
INVERTER
FCLD
FCLU
FCLKD
FCLKU
IC6502
INVERTER
FSIU
FSID
PROU
PROD
IC6511
LOGIC
Q6501
SC
Q6511
Q6512
VSCN
Q6476
Q6477
VAD+15V
D6502
PHOTO COUPLE
CPH
Q6502
IC6521
LOGIC
Q6520
Q6521
VSET INSERT
Q6523
VSET
Q6554
Q6555
D6503
PHOTO COUPLE
Q6503
IC6541
LOGIC
CEL
Q6525
Q6526
Q6556
Q6557
VSET2 INSERT
Q6551
Q6552
Q6524
D6504
PHOTO COUPLE
Q6504
IC6542
LOGIC
Q6561
VAD INSERT
Q6562
Q6564
SCSU
VAD
VSET REG.
Q6491 Q6492
IC6491
VSUS
FISV
Q6431 T6431
Q6432 D6434
Q6435 IC6431
VSCN GEN VSET
Q6451 Q6452
Q6454 Q6455
T6451 IC6451
D6454 IC6452
VAD GEN
Q6471 Q6472
Q6474 Q6475
D6474 IC6471
T6471 IC6472
IC6452
15V REG
15V
IC6453
15V REG
IC6454
5V REG
5V
IC6455
5V REG
SC44
TO SD52
Vf
FSID
FCLD
FCLKD
PROD
VF5V
Vf
SC43
TO SD51
Vf
VSCN
VSCN
Vfo
SC41
TO SU51
Vf
FSIU
FCLU
FCLKU
PROU
VF5V
Vf
SC42
TO SU52
Vf
VSCN
VSCN
Vfo


SD
Scan Out (down) Board
TO SC44
SD52
Vf
FSI
FCL
FCLK
PRO
VF5V
Vf
TO SC43
SD51
Vf
VSCN
Vfo
IC6407
IC6408
IC6409
IC6410
IC6411
IC6412
PDP SCAN DRIVER
FSI
FCLK
FCL
PRO
FS01
FSO1
FSO2
FSO3
FSO4
FSO5
Vf5
Vf
Vfo
SHIFT RESISTOR
LATCH
SERECTOR
HV01
HV02
HV03
HV62
HV63
HV64
64 PIN OUTPUT
SD1
SD2
SD3
SD4
To 1st 96pins of SCAN ELECTRODES
To 2nd 96pins of SCAN ELECTRODES
To 3rd 96pins of SCAN ELECTRODES
To 4th 96pins of SCAN ELECTRODES

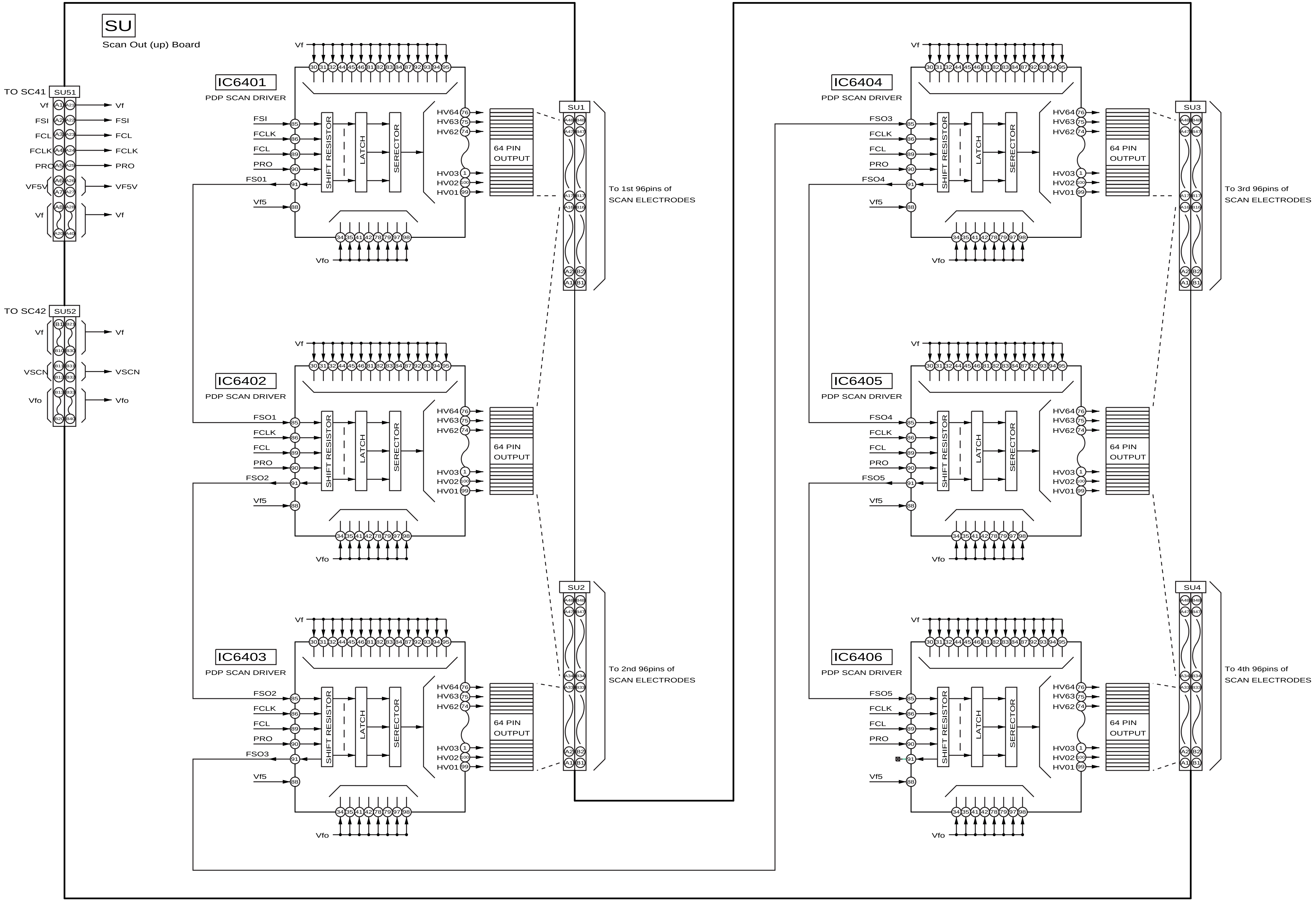
TH-42PHD6/TH-42PHW6
SD-BOARD Block Diagram

TH-42PHD6/TH-42PHW6
SD-BOARD Block Diagram


SS
Sustain Drive Board
TO P12
SS12
STB PS
10
+15V
4
TP15V
L6713
15V
VDA
1
VDA
2
TPVDA
L6715
TO P11
SS11
TPVSUS
VSUS
2
VSUS
3
TO C32
SS32
VDA
12
TPSOS3
SOS
9
IC6706
BUFFER
IC6701
FET DRIVER
UMH
8
UML
7
Q6732
Q6733
Q6711
Q6714
UMH
S2
Q6734
Q6735
Q6715
Q6718
UML
S3
IC6702
FET DRIVER
USH
S1
USH
6
USL
5
Q6701
Q6702
Q6721
Q6722
D6711,12
Q6744
Q6745
Q6723
Q6724
D6715,16
USL
IC6703
FET DRIVER
SS-BOARD
SOS DET
Q6741
IC6707
DISCHARGE
1/2 Vo
D6760
(RED LED)
L6701
L6706
TPSS1
IC6704
FET DRIVER
UEH
4
VE
INSERT
UEH
Q6727
Q6728
+15V
D6764
(RED LED)
IC6705
FET DRIVER
UEL
3
Q6725
UEL
Q6729
UEL
Q6730
Q6731
Q6739
Q6738
IC6709
VE
GENERATOR
TPVe
R6770
Ve
S1
Power Switch Board
SS34
S34
POWER SWITCH
S061
SS42
TO C42
+15V
VDA
VDA
SS2
Sustain Connection
(Upper) Board
SS20
SS23
SS55
SS56
SS51
SS52
SS3
Sustain Connection
(Lower) Board
SS21
SS22
SS57
SS58
SS53
SS54

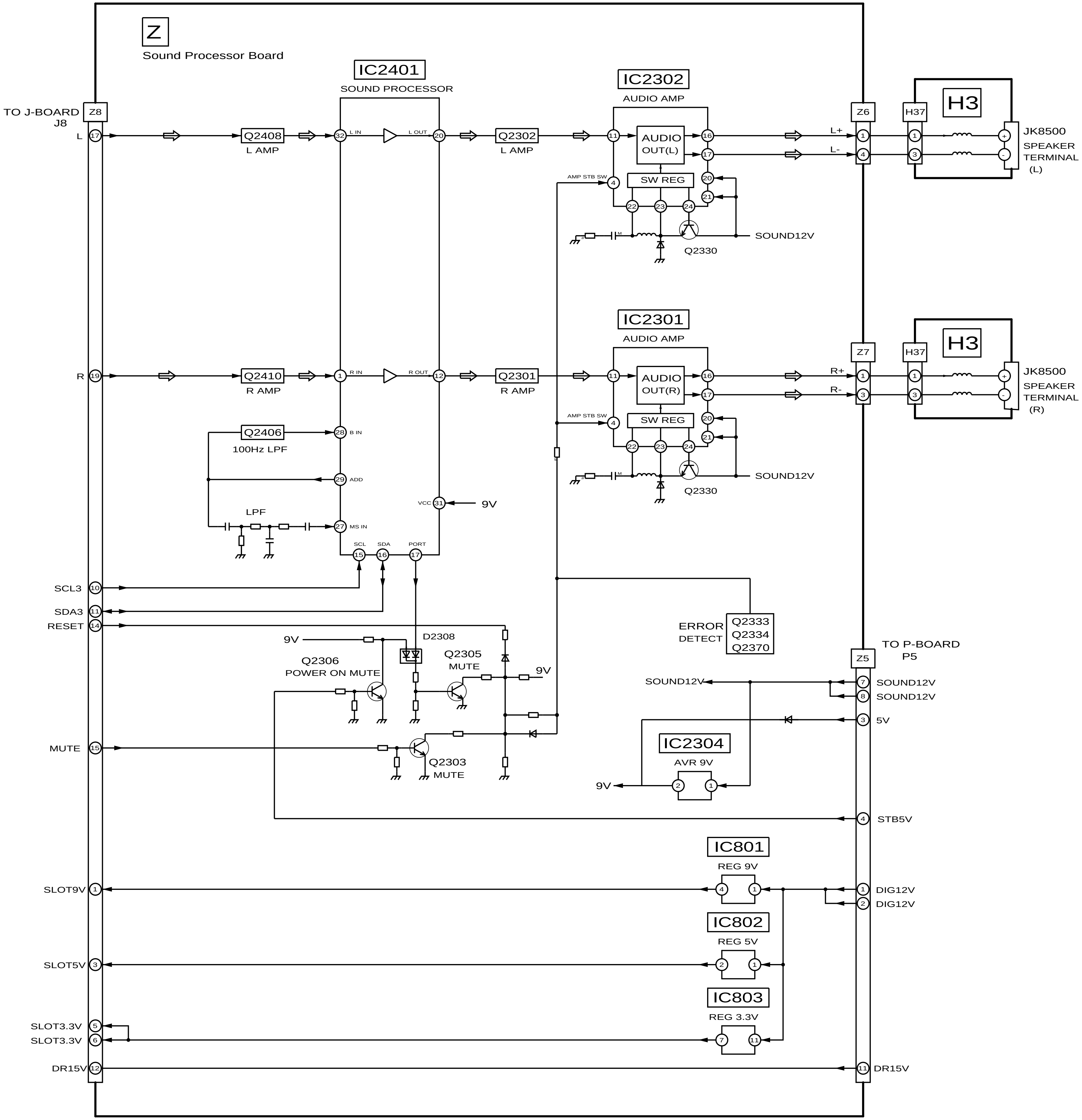
TH-42PHD6/TH-42PHW6
S1-BOARD, SS-BOARD, SS2-BOARD and SS3-BOARD Block Diagram

TH-42PHD6/TH-42PHW6
S1-BOARD, SS-BOARD, SS2-BOARD and SS3-BOARD Block Diagram


SU
Scan Out (up) Board
TO SC41
SU51
Vf
FSI
FCL
FCLK
PRO
VF5V
TO SC42
SU52
VSCN
Vfo
IC6401
PDP SCAN DRIVER
IC6402
PDP SCAN DRIVER
IC6403
PDP SCAN DRIVER
IC6404
PDP SCAN DRIVER
IC6405
PDP SCAN DRIVER
IC6406
PDP SCAN DRIVER
FSO1
FSO2
FSO3
FSO4
FSO5
Vf5
SHIFT RESISTOR
LATCH
SERECTOR
HV64
HV63
HV62
HV03
HV02
HV01
64 PIN
OUTPUT
SU1
SU2
SU3
SU4
To 1st 96pins of
SCAN ELECTRODES
To 2nd 96pins of
SCAN ELECTRODES
To 3rd 96pins of
SCAN ELECTRODES
To 4th 96pins of
SCAN ELECTRODES

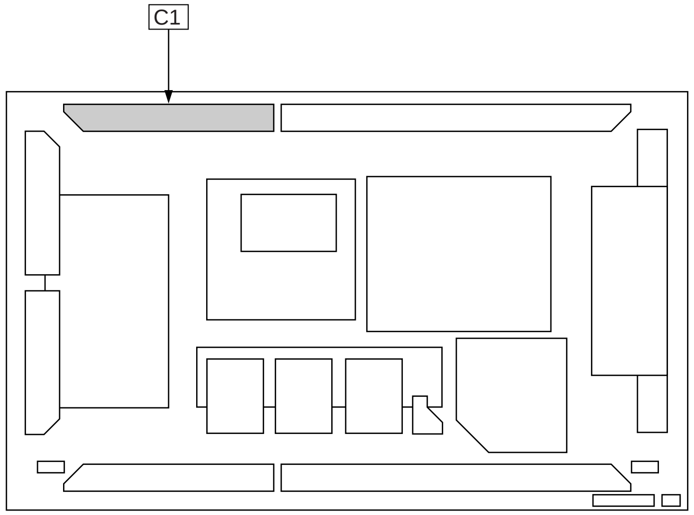
TH-42PHD6/TH-42PHW6
SU-BOARD Block Diagram

TH-42PHD6/TH-42PHW6
SU-BOARD Block Diagram

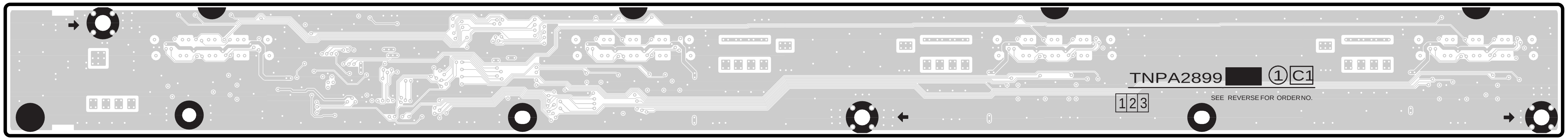

Z
Sound Processor Board
TO J-BOARD
J8
Z8
L
R
IC2401
SOUND PROCESSOR
Q2408
L AMP
Q2410
R AMP
L IN
L OUT
R IN
R OUT
B IN
ADD
MS IN
VCC
SCL
SDA
PORT
Q2406
100Hz LPF
LPF
9V
Q2302
L AMP
Q2301
R AMP
IC2302
AUDIO AMP
AUDIO
OUT(L)
SW REG
AMP STB SW
SOUND12V
Q2330
IC2301
AUDIO AMP
AUDIO
OUT(R)
SW REG
AMP STB SW
SOUND12V
Q2330
Z6
L+
L-
Z7
R+
R-
H37
H3
JK8500
SPEAKER
TERMINAL
(L)
JK8500
SPEAKER
TERMINAL
(R)
SCL3
SDA3
RESET
MUTE
9V
D2308
Q2306
POWER ON MUTE
Q2305
MUTE
9V
Q2303
MUTE
ERROR
DETECT
Q2333
Q2334
Q2370
TO P-BOARD
P5
Z5
SOUND12V
SOUND12V
SOUND12V
5V
IC2304
AVR 9V
9V
STB5V
IC801
REG 9V
IC802
REG 5V
IC803
REG 3.3V
DIG12V
DIG12V
DR15V
SLOT9V
SLOT5V
SLOT3.3V
SLOT3.3V
DR15V

TH-42PHD6/TH-42PHW6
Z-BOARD and H3-BOARD Block Diagram

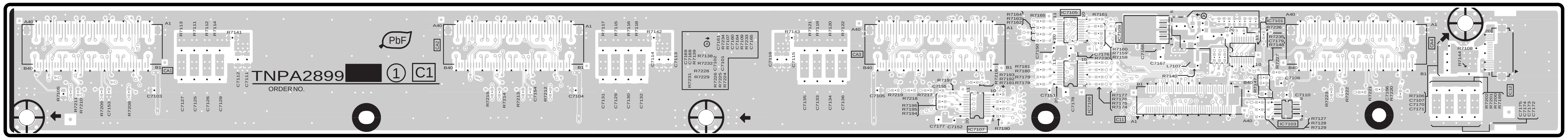
TH-42PHD6/TH-42PHW6
Z-BOARD and H3-BOARD Block Diagram

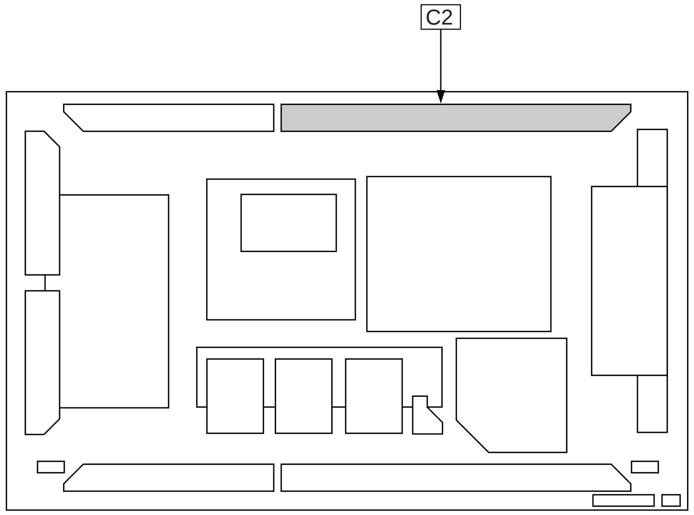


C1-BOARD(FOIL SIDE)
TNPA2899

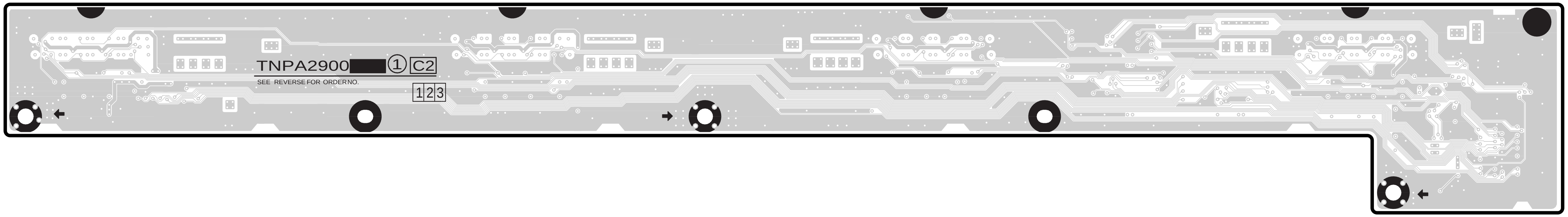

TNPA2899
① C1
1 2 3
SEE REVERSE FOR ORDER NO.

C1-BOARD(COMPONENT SIDE)
TNPA2899

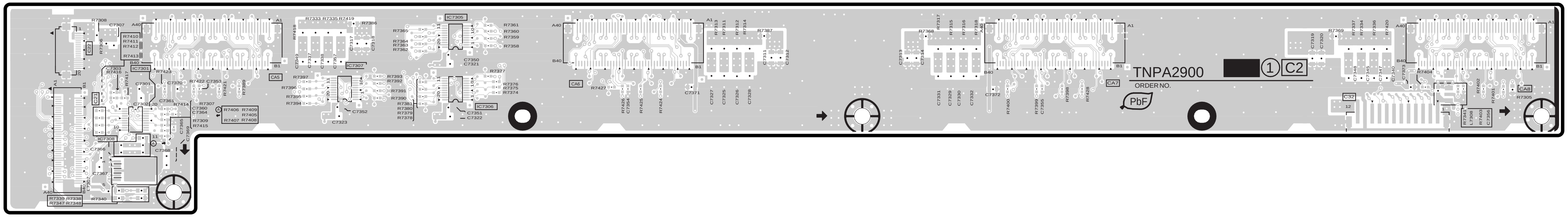

TNPA2899
① C1
ORDER NO.
PbF
A40
A1
B40
B1
CA1
CA2
CA3
CA4
IC7101
IC7103
IC7105
IC7106
IC7107



C2-BOARD(FOIL SIDE)
TNPA2900

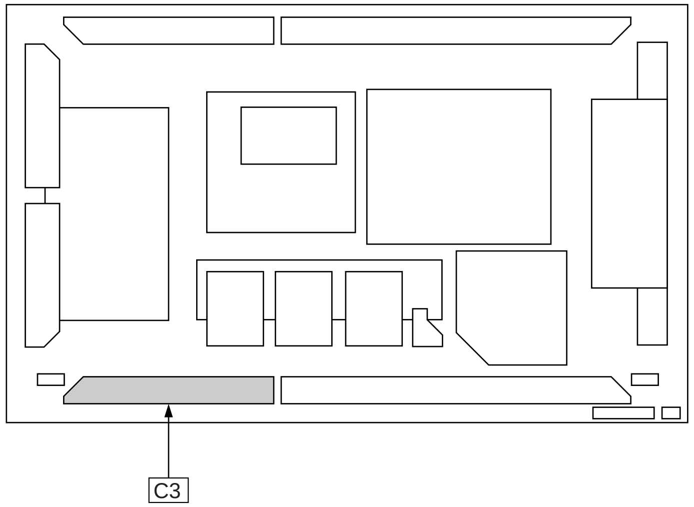

TNPA2900
①
C2
SEE REVERSE FOR ORDER NO.
1 2 3

C2-BOARD(COMPONENT SIDE)
TNPA2900


TNPA2900
①
C2
ORDER NO.
PbF
IC7301
IC7305
IC7306
IC7307
IC7308
CA5
CA6
CA7
CA8

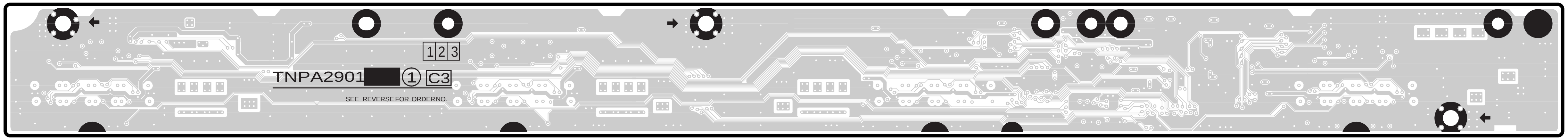
6

5



4

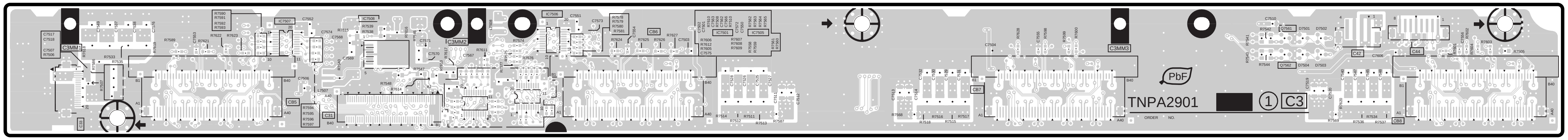
C3-BOARD(FOIL SIDE)
TNPA2901


1 2 3
TNPA2901
①
C3
SEE REVERSE FOR ORDER NO.

3

C3-BOARD(COMPONENT SIDE)
TNPA2901

2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C3MM2
C3MM3
PbF
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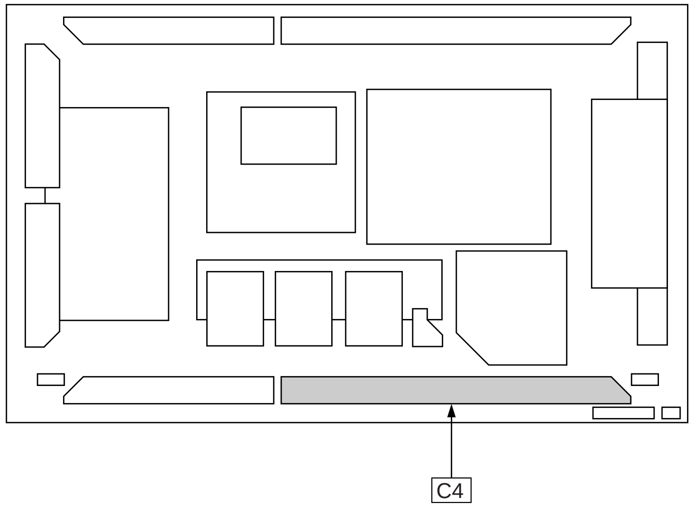
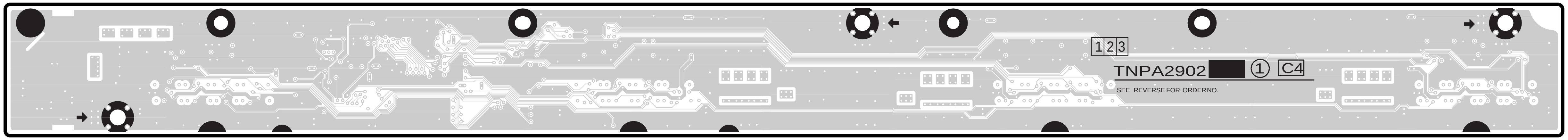
C3
ORDER NO.

1

A B C D E F G H I



C4-BOARD(FOIL SIDE)
TNPA2902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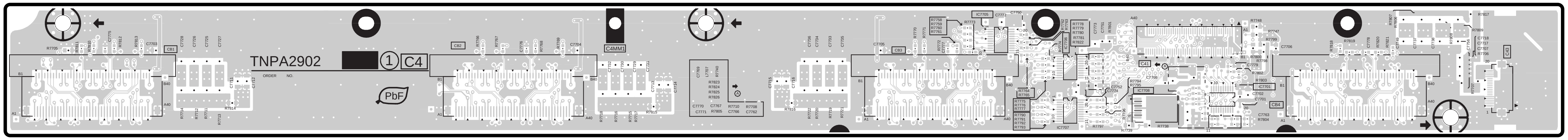
TNPA2902
①
C4
SEE REVERSE FOR ORDER NO.

C4-BOARD(COMPONENT SIDE)
TNPA2902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PbF
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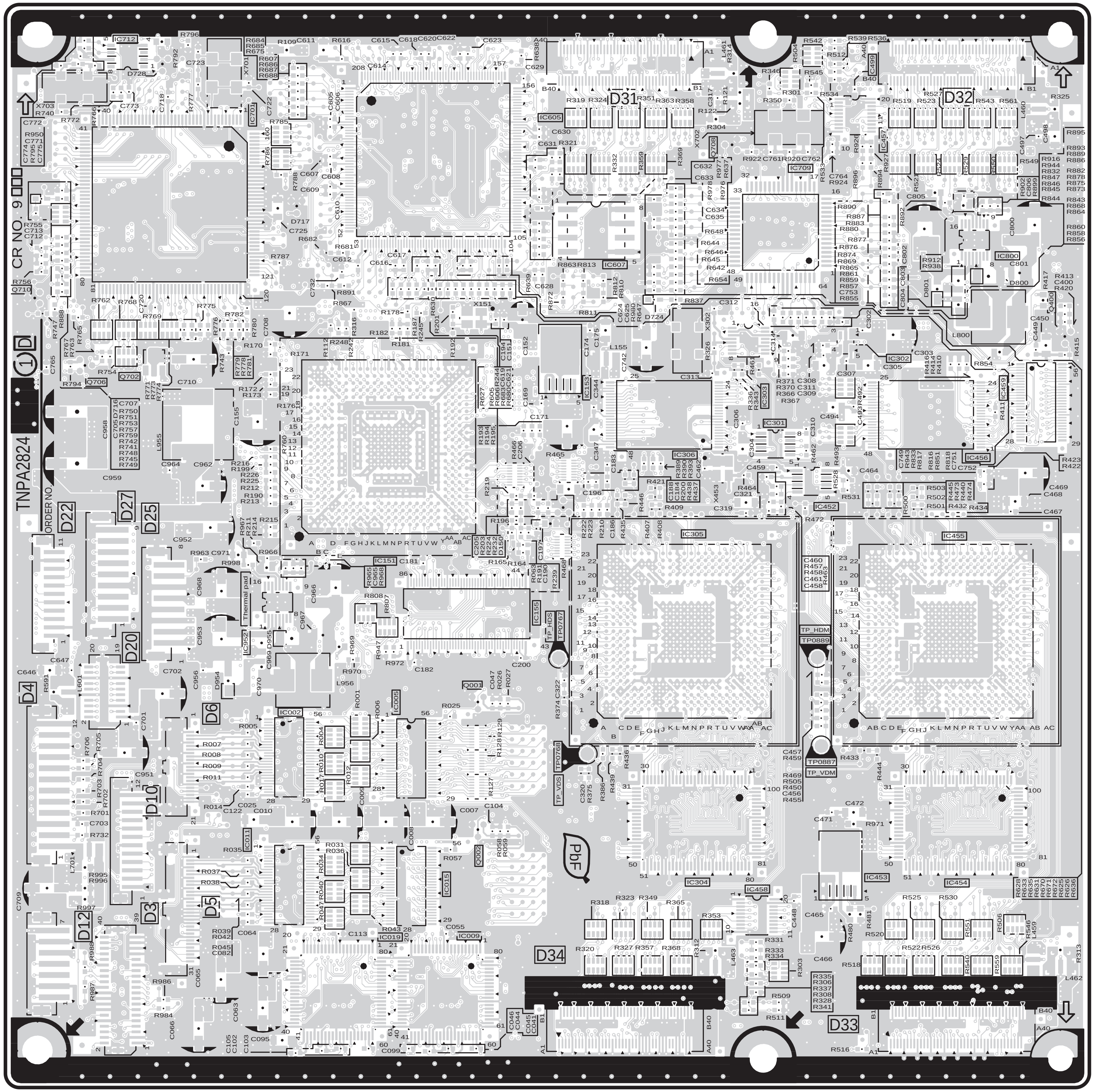
C81
C82
C83
C84
C41
C4I

D-BOARD(COMPONENT SIDE)
TZTNP01QJSU



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D33
D34
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IC454
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IC306
IC451
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IC701
IC712
IC800
IC151
IC152
IC155
IC002
IC005
IC011
IC015
IC019
IC009
D3
D4
D5
D6
D10
D12
D20
D22
D25
D27
TP_HDM
TP0889
TP0887
TP_VDM
TP_HDS
TP0767
TP0768
TP_VDS
Thermal pad
PbF
TNPA2824
ORDER NO.
CR NO. 9
1 D
6
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1
A
B
C
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E
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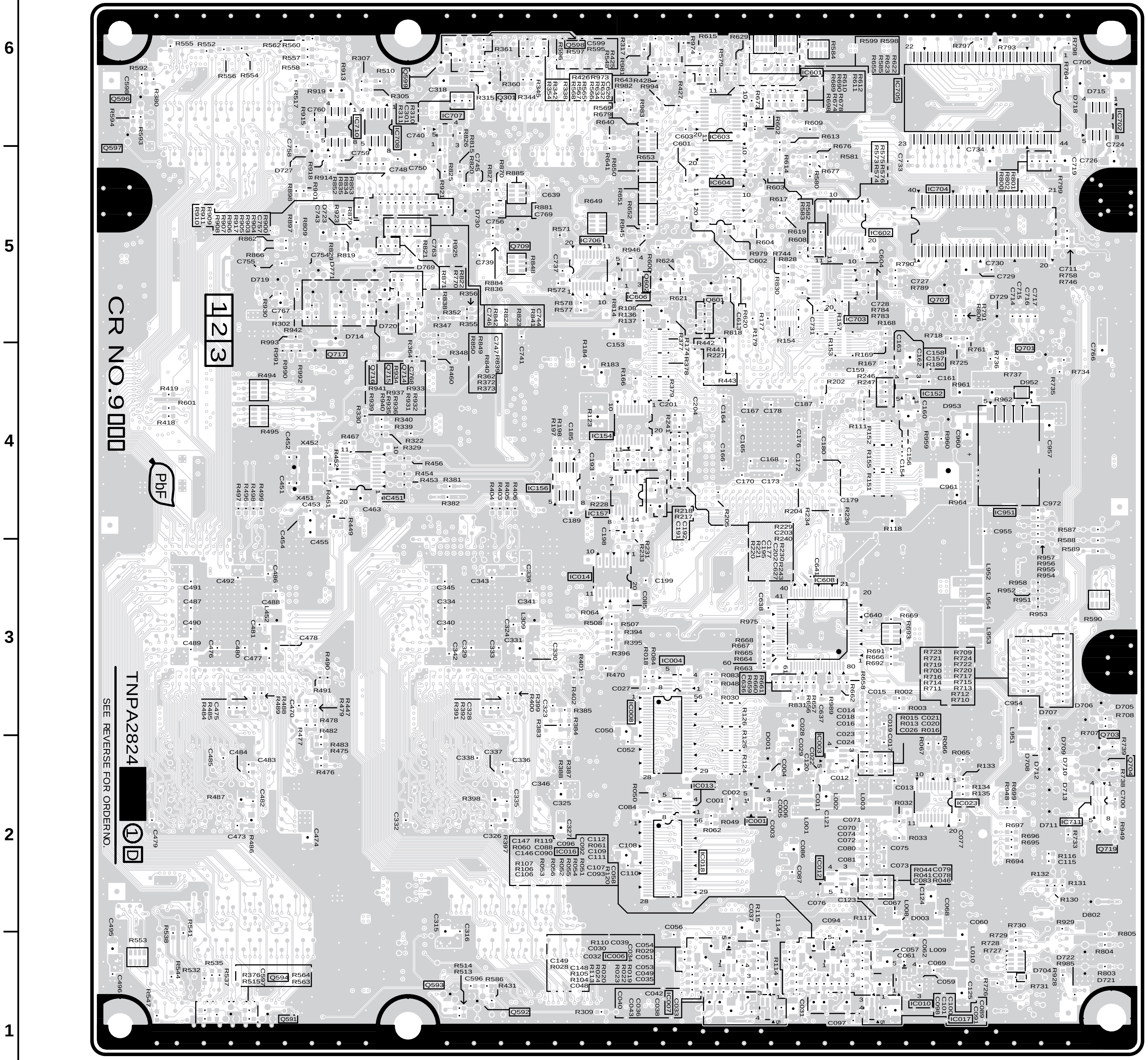
G
H
I

D-BOARD(FOIL SIDE)
TZTNP01QJSU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5
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3
2
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CR NO.9
123
TNPA2824
SEE REVERSE FOR ORDER NO.
PbF
① D
IC601
IC602
IC603
IC604
IC704
IC705
IC702
IC703
IC706
IC707
IC708
IC710
IC951
IC152
IC154
IC156
IC157
IC451
IC014
IC608
IC004
IC008
IC013
IC001
IC016
IC018
IC012
IC003
IC023
IC711
IC006
IC007
IC010
IC017
Q596
Q597
Q598
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Q301
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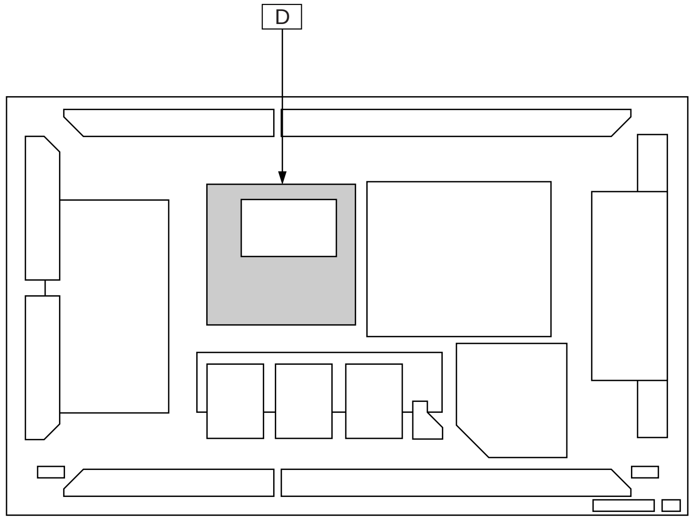
Q594

A B C D E F G H I



Parts Location

D-BOARD (FOIL SIDE)

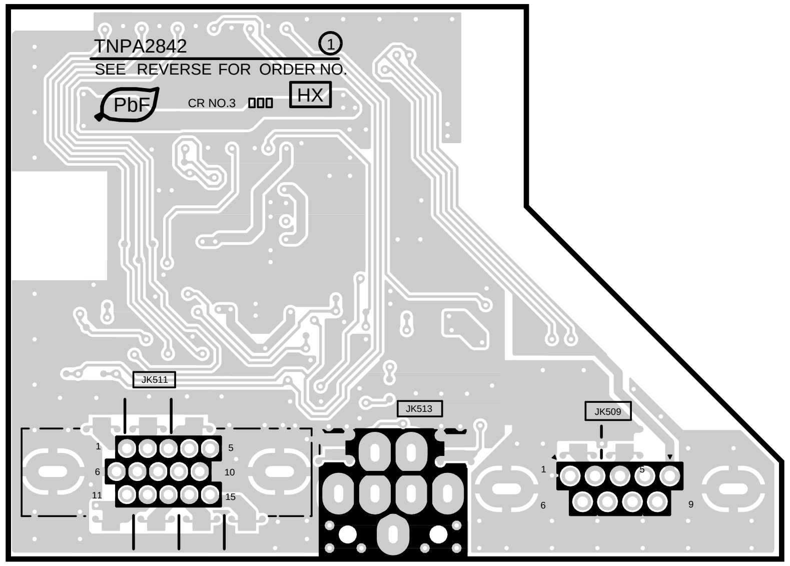
IC				TRANSISTOR	
IC001	D-2	IC603	D-6	Q301	C-6
IC003	E-2	IC604	D-5	Q591	B-1
IC004	D-3	IC606	D-5	Q592	C-1
IC006	D-1	IC608	E-3	Q593	C-1
IC007	D-1	IC702	F-6	Q594	B-1
IC008	D-3	IC703	E-5	Q596	A-6
IC010	E-1	IC704	E-5	Q597	A-6
IC012	E-2	IC705	E-6	Q598	C-6
IC013	D-2	IC706	C-5	Q599	C-6
IC014	C-3	IC707	C-6	Q601	D-5
IC016	C-2	IC708	B-6	Q602	D-5
IC017	E-1	IC710	B-6	Q701	F-4
IC018	D-2	IC711	F-2	Q703	F-3
IC023	E-2	IC951	F-4	Q704	F-2
IC152	E-4			Q707	E-5
IC154	C-4			Q709	C-5
IC156	C-4			Q714	B-4
IC157	C-4			Q715	B-4
IC451	B-4			Q716	B-4
IC601	D-6			Q717	B-4
IC602	E-5			Q719	F-2

Parts Location

D-BOARD (COMPONENT SIDE)

IC				TRANSISTOR	
IC002	B-3	IC459	F-4	Q001	C-3
IC005	C-3	IC515	C-4	Q002	C-2
IC009	C-2	IC605	C-6	Q400	F-5
IC011	B-2	IC607	D-5	Q702	A-4
IC015	C-2	IC701	B-6	Q706	A-4
IC019	C-2	IC709	E-5	Q708	D-6
IC153	D-4	IC712	A-6	Q710	A-5
IC156	C-3	IC800	F-5	**TP**	
IC301	E-4			TP0767	D-3
IC302	E-4			TP0768	D-3
IC303	E-4			TP0887	E-3
IC304	D-2			TP0889	E-3
IC305	D-4				
IC306	D-4				
IC452	E-4				
IC453	E-2				
IC454	F-2				
IC455	F-3				
IC456	F-4				
IC457	E-6				
IC458	E-2				

HX-BOARD(FOIL SIDE)
TZTNP020QJS


TNPA2842
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PbF
CR NO.3
HX
JK511
JK513
JK509
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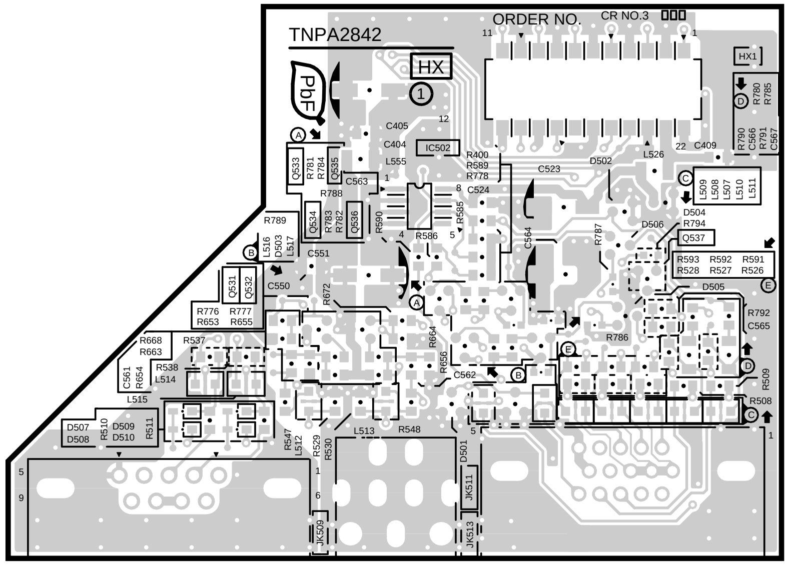
5
6
10
11
15
1
5
6
9

HX-BOARD(COMPONENT SIDE)
TZTNP020QJS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ORDER NO.
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IC502
C405
C404
L555
R400
R589
R778
C524
C523
D502
L526
C409
Q533
Q534
Q535
Q536
Q531
Q532
Q537
R781
R784
R788
R783
R782
R789
R590
R586
R585
C563
C551
C550
C564
R787
D506
D504
R794
R593
R592
R591
R528
R527
R526
D505
R792
C565
R786
R509
R508
R776
R777
R653
R655
R668
R663
R537
R538
L514
L515
C561
R654
R672
R664
R656
C562
D507
D508
R510
D509
D510
R511
R547
R512
R529
R530
L513
R548
D501
JK511
JK513
JK509
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R791
C567
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R785
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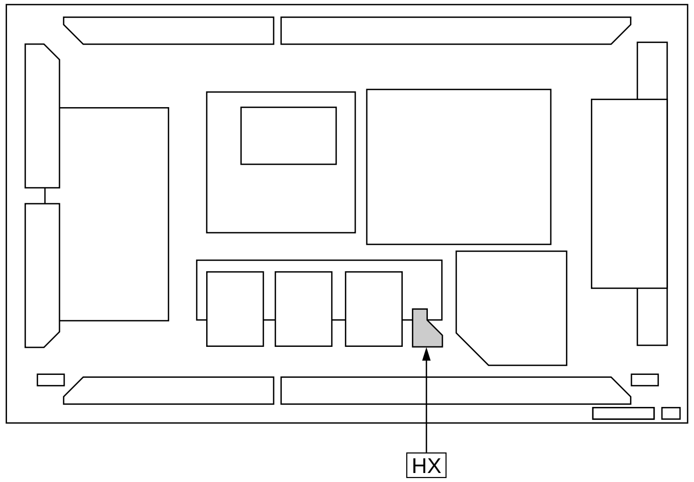
L508
L507
L510
L511
L516
L517
D503



Parts Location

HX-BOARD			
IC		**TRANSISTOR**	
IC3502	E-4	Q3531 Q3532 Q3533 Q3534 Q3535 Q3536 Q3537	D-4 D-4 E-4 E-4 E-4 E-4 F-4

6

5

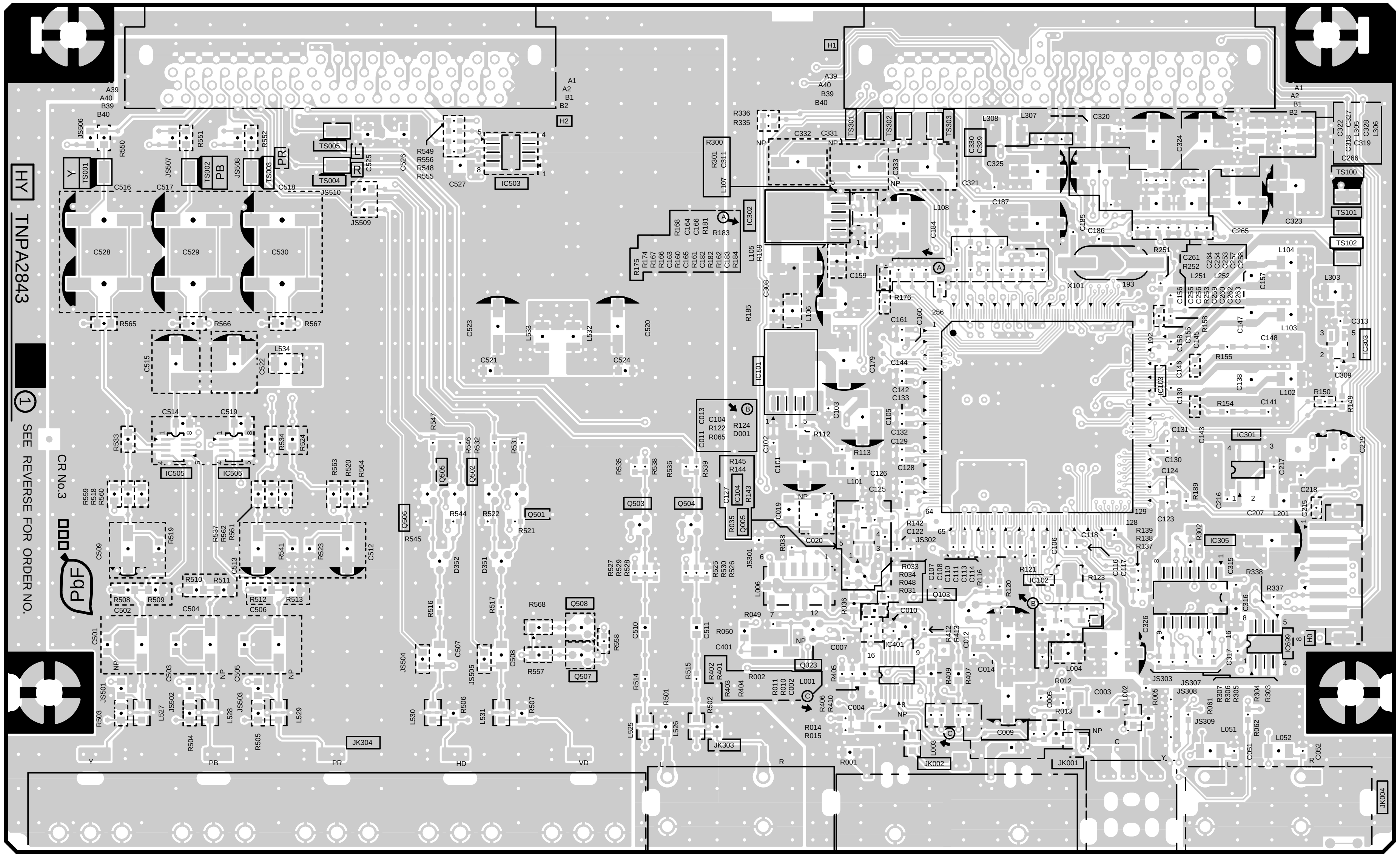
4

3

2

1

HY-BOARD(COMPONENT SIDE)
TXNHY10QBS


HY
TNPA2843
①
SEE REVERSE FOR ORDER NO.
CR No.3
PbF
Y
PB
PR
HD
VD
R
TS001
TS002
TS003
TS004
TS005
TS100
TS101
TS102
TS301
TS302
TS303
IC503
IC505
IC506
IC101
IC102
IC301
IC302
IC303
IC305
IC699
Q023
Q103
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Q503
Q504
Q507
Q508
JK001
JK002
JK004
JK303
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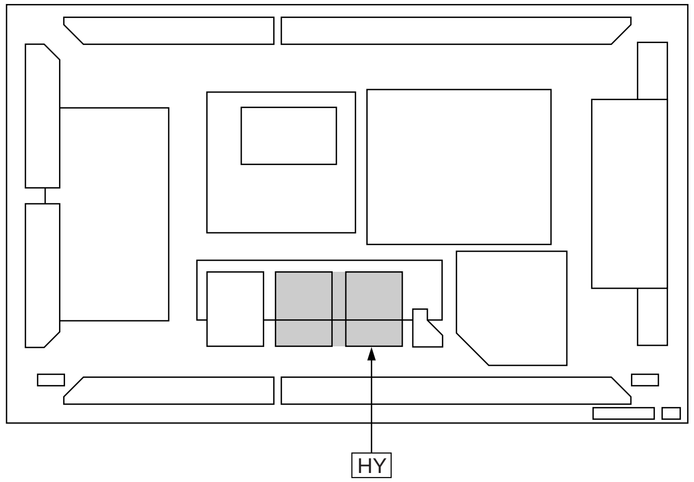
C529
C530
X101



Parts Location

HY-BOARD (COMPONENT SIDE)			
IC		**TRANSISTOR**	
IC3101	D-4	Q3005	D-3
IC3102	E-3	Q3023	D-2
IC3103	E-3	Q3103	E-3
IC3104	D-3	Q3501	C-3
IC3301	F-3	Q3502	C-3
IC3302	D-4	Q3503	D-3
IC3303	G-4	Q3504	D-3
IC3305	F-3	Q3505	C-3
IC3401	E-2	Q3506	C-3
IC3503	C-5	Q3507	C-2
IC3505	B-3	Q3508	C-3
IC3506	B-3	**TP**	
IC3699	F-2	TS001	A-5
		TS002	B-5
		TS003	B-5
		TS004	B-6
		TS005	B-7
		TS100	G-4
		TS101	G-4
		TS102	G-4
		TS301	E-5
		TS302	E-5
		TS303	E-5

A B C D E F G H I

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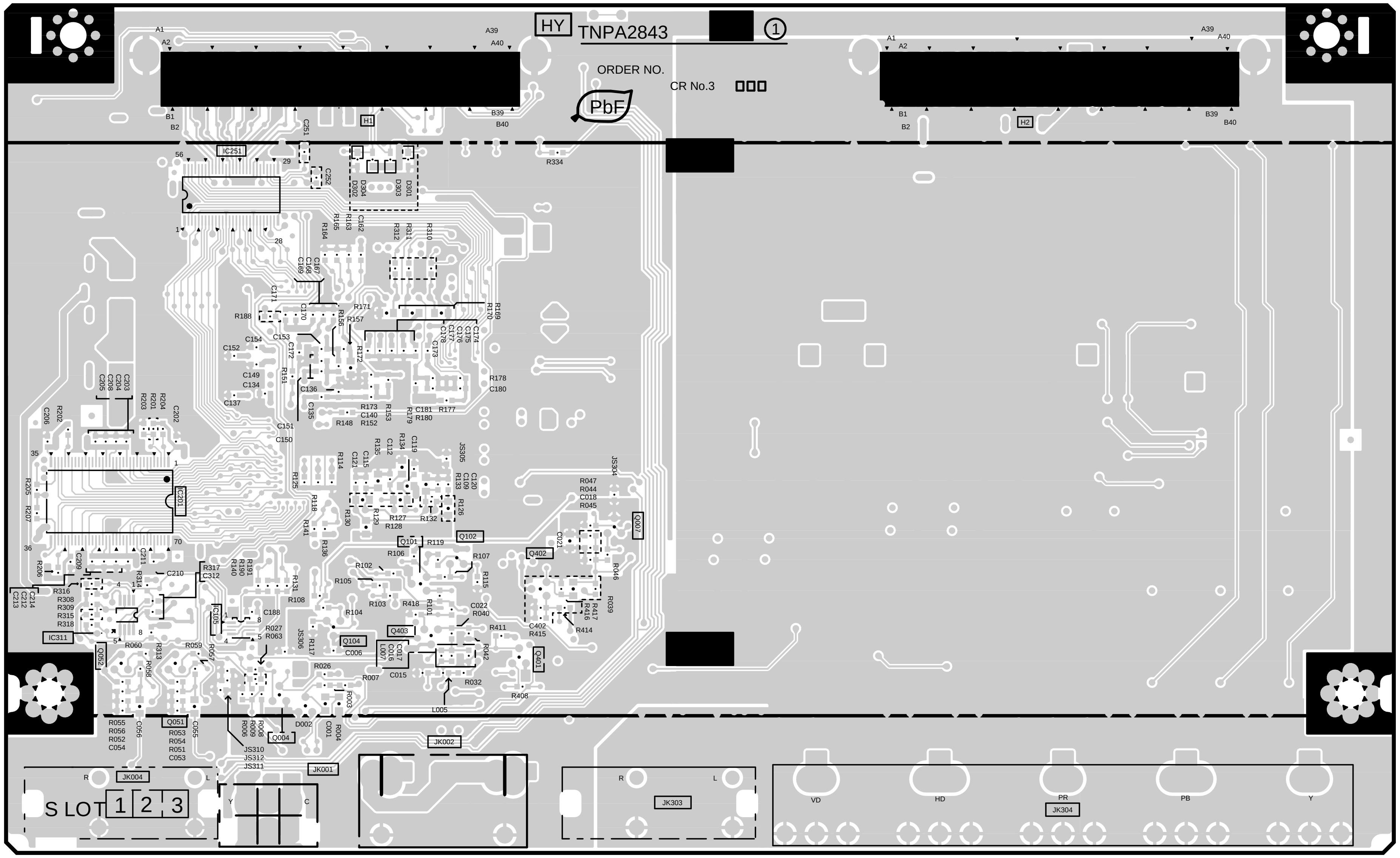
1

HY-BOARD(FOIL SIDE)
TXNHY10QBS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TNPA2843
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ORDER NO.
CR No.3
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A39
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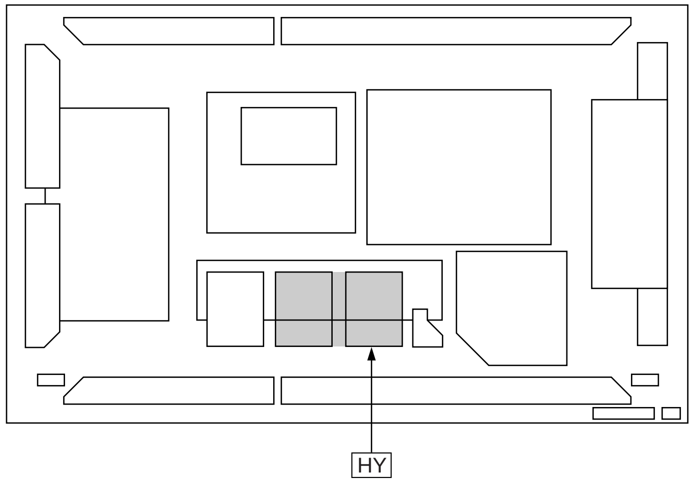
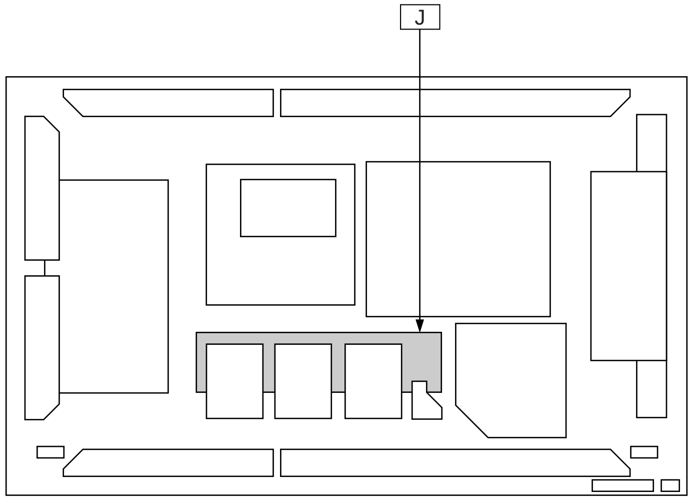
H1
H2
IC251
IC201
IC311
IC105
Q101
Q102
Q104
Q402
Q403
Q401
Q007
Q004
Q051
Q052
JK001
JK002
JK004
JK303
JK304
R334
R
L
Y
C
S LOT 1 2 3
VD
HD
PR
PB
Y



Parts Location

HY-BOARD (FOIL SIDE)			
IC		TRANSISTOR	
IC3105	B-3	Q3004	B-2
IC3201	A-3	Q3007	D-3
IC3251	B-4	Q3051	A-2
IC3311	A-3	Q3052	A-2
		Q3101	C-3
		Q3102	C-3
		Q3104	B-2
		Q3401	C-2
		Q3402	C-3
		Q3403	B-3

A B C D E F G H I

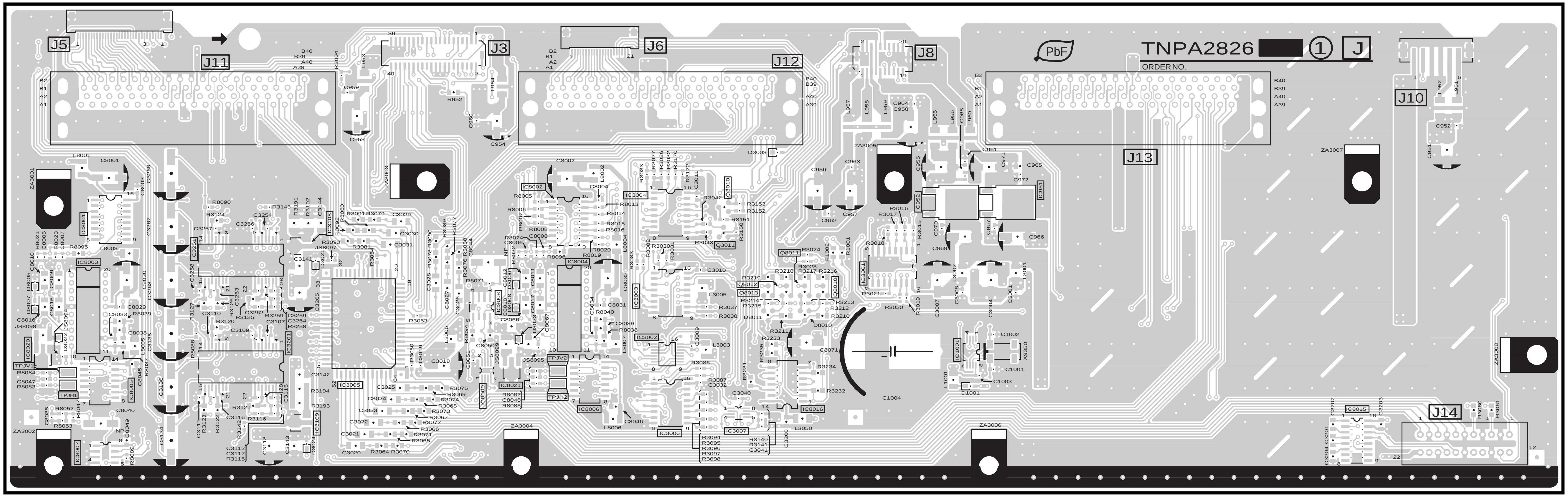


Parts Location

J-BOARD (COMPONENT SIDE)

IC		TRANSISTOR	
IC1001	F-2	Q3010	E-3
IC3001	F-2	Q3011	E-3
IC3002	D-2	Q8010	E-2
IC3003	D-2	Q8011	E-2
IC3004	D-3	Q8012	E-2
IC3005	C-2	Q8013	E-2
IC3006	D-2		
IC3007	E-1	**TP**	
IC3108	B-2	TPJH1	A-2
IC3109	B-1	TPJH2	D-2
IC3201	B-2	TPJV1	A-2
IC3251	B-2	TPJV2	D-2
IC8001	A-3		
IC8002	D-3		
IC8003	A-2		
IC8004	D-2		
IC8005	A-2		
IC8006	D-2		
IC8007	A-1		
IC8008	C-2		
IC8009	C-2		
IC8015	H-1		
IC8016	E-2		
IC8020	A-2		
IC8021	D-2		
IC951	F-3		
IC952	F-3		

J-BOARD(COMPONENT SIDE)
TNPA2826


J5
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J6
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J8
J13
J10
J14
TNPA2826
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J
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PbF
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B39
A40
A39
B2
B1
A2
A1
IC1001
IC3001
IC3002
IC3003
IC3004
IC3005
IC3006
IC3007
IC3108
IC3109
IC3201
IC3251
IC8001
IC8002
IC8003
IC8004
IC8005
IC8006
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IC8008
IC8009
IC8015
IC8016
IC8020
IC8021
IC951
IC952
Q3010
Q3011
Q8010
Q8011
Q8012
Q8013
TPJH1
TPJH2
TPJV1
TPJV2
ZA3001
ZA3002
ZA3003
ZA3004
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ZA3006
ZA3007
ZA3008
C1004

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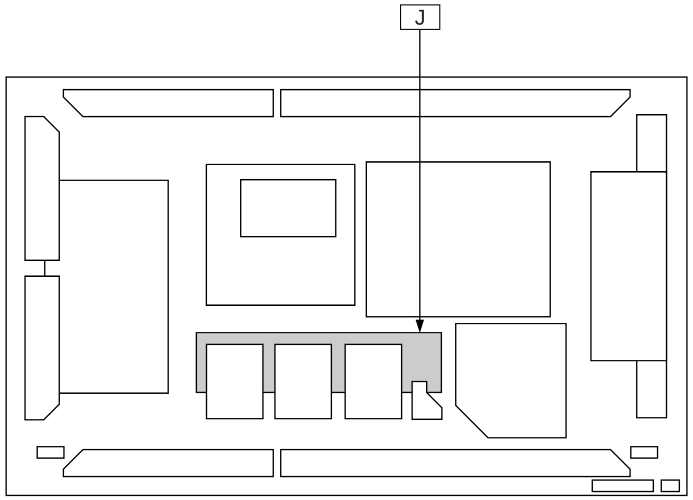
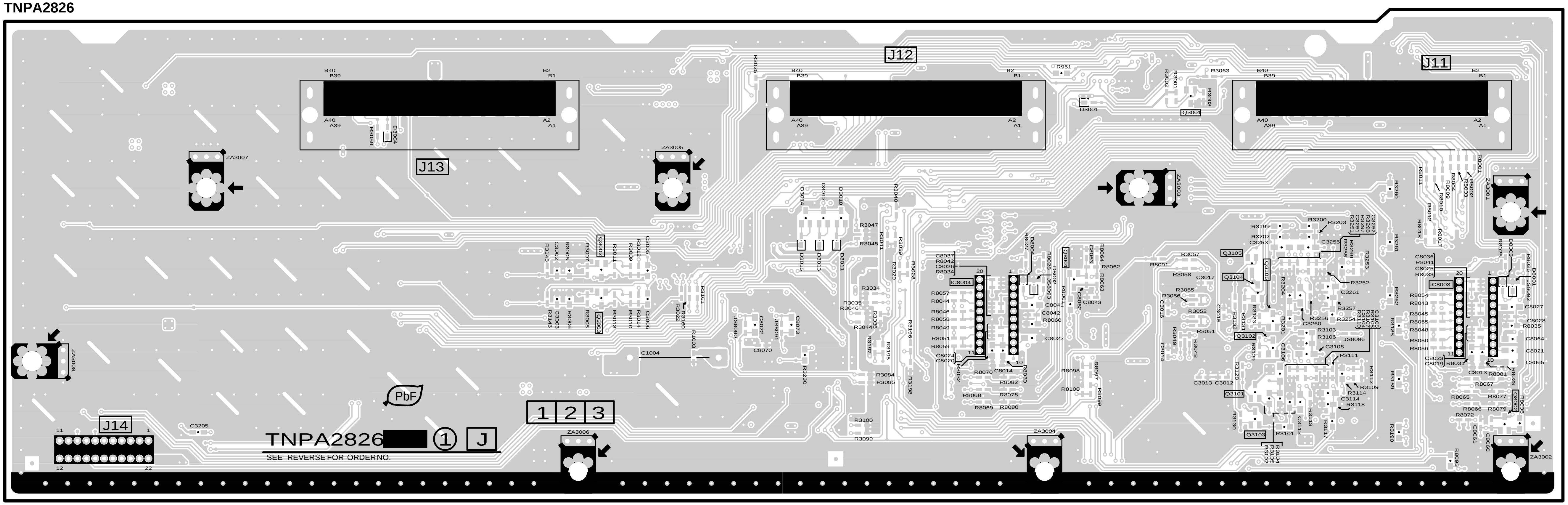


Parts Location

J-BOARD (FOIL SIDE)			
IC		**TRANSISTOR**	
IC8003	I-2	Q3001	G-3
IC8004	F-2	Q3002	D-2
		Q3003	D-2
		Q3101	H-2
		Q3102	H-2
		Q3103	H-1
		Q3104	H-2
		Q3105	H-2
		Q3106	H-2
		Q8001	G-2
		Q8002	I-2

J-BOARD (FOIL SIDE)
TNPA2826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ZA3002
ZA3003
ZA3004
ZA3005
ZA3006
ZA3007
ZA3008
IC8003
IC8004
Q3001
Q3002
Q3003
Q3101
Q3102
Q3103
Q3104
Q3105
Q3106
Q8001
Q8002
D3001
C1004
C3205
PbF
1 2 3
TNPA2826
①
J
SEE REVERSE FOR ORDER NO.
11
1
12
22
20
10

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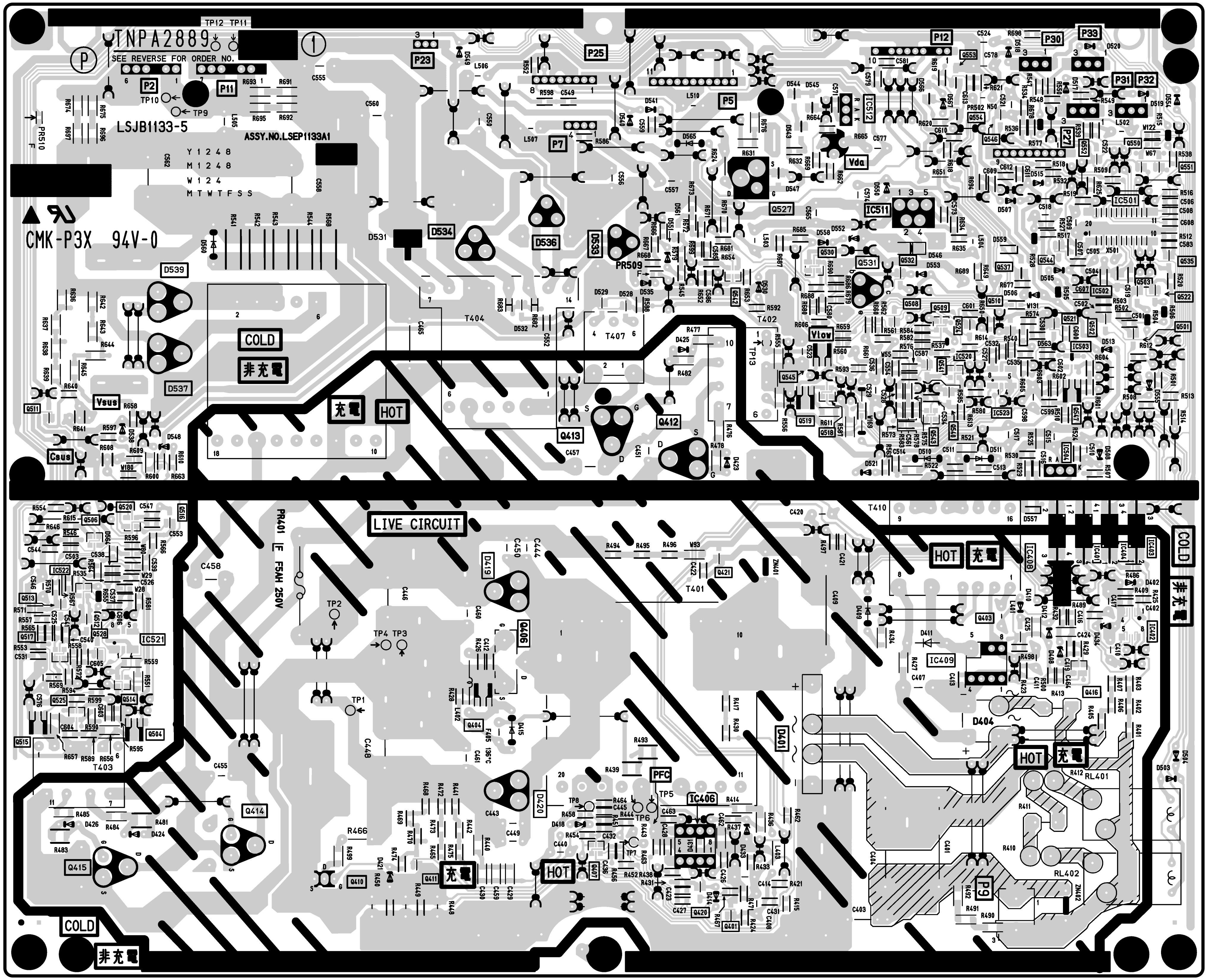
H
I

P-BOARD(FOIL SIDE)
TNPA2889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LSJB1133-5
ASSY.NO.LSEP1133A1
CMK-P3X 94V-0
COLD
非充電
HOT
充電
LIVE CIRCUIT
PR401 F5AH 250V
T401
T402
T403
T404
T407
T410
RL401
RL402
D404
IC406
IC409
IC501
IC511
IC521
PFC
Vsus
Csus
Vlow
Vda
P2
P5
P7
P9
P11
P12
P23
P25
P27
P30
P31
P32
P33
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
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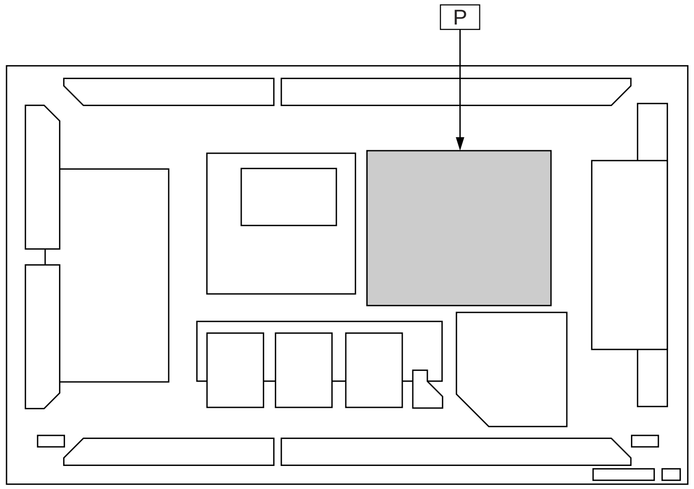
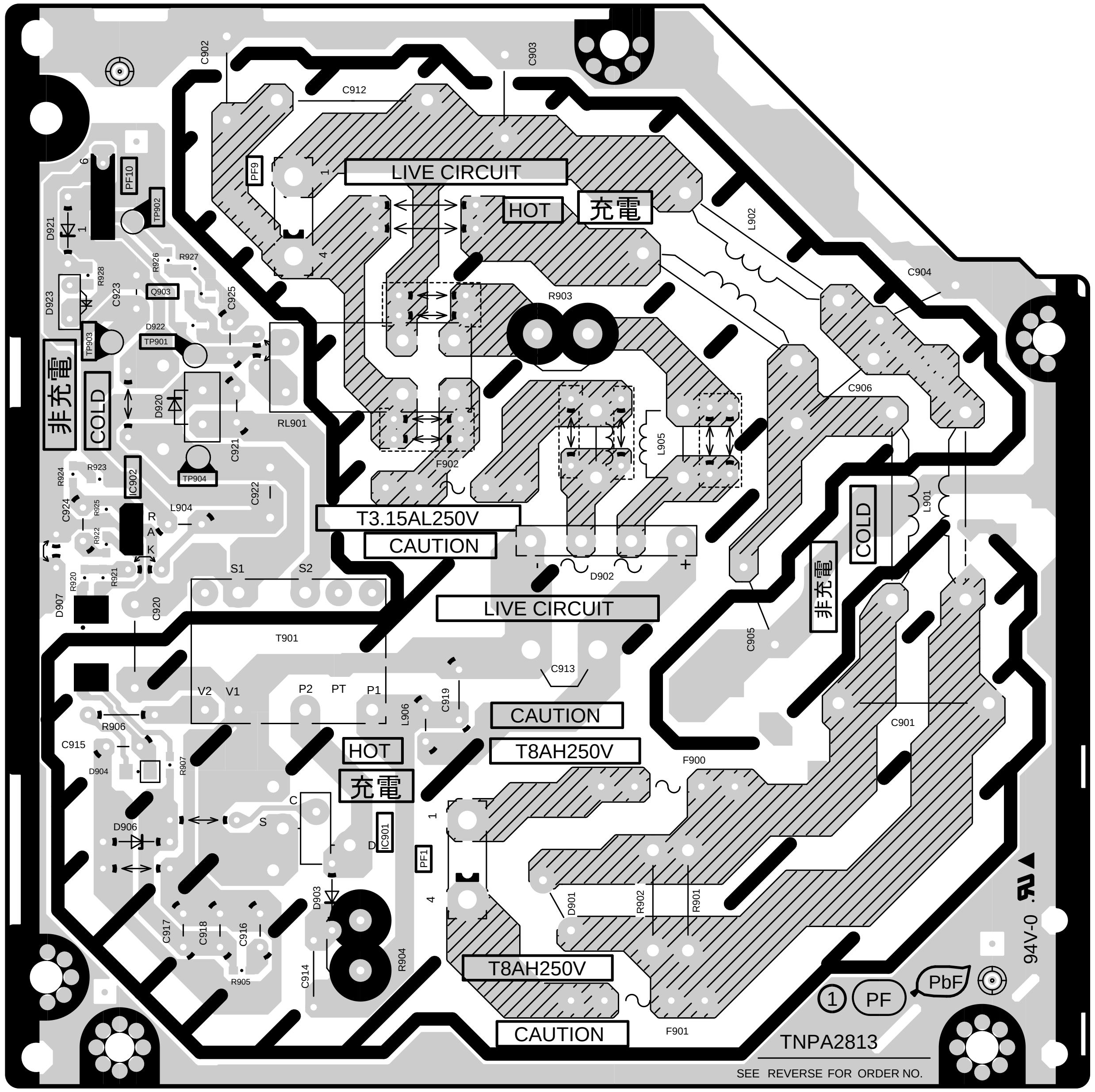


Parts Location

P-BOARD (FOIL SIDE)							
IC		**TRANSISTOR**		Q516	C-3	**TP**	
IC401	H-3	Q401	F-1	Q517	B-3	TP2	D-3
IC402	H-3	Q403	G-3	Q518	F-4	TP3	D-3
IC403	H-3	Q404	D-2	Q519	F-4	TP4	D-3
IC404	H-3	Q406	D-3	Q520	B-3	TP5	E-2
IC406	F-2	Q407	E-1	Q521	H-4	TP6	E-2
IC408	G-3	Q410	D-1	Q522	H-5	TP7	E-2
IC409	G-3	Q411	D-1	Q524	G-4	TP8	E-2
IC501	H-5	Q412	E-4	Q525	B-2	TP9	C-6
IC502	H-5	Q413	E-4	Q527	F-5	TP10	C-6
IC503	H-4	Q414	C-2	Q528	B-3	TP10	D-2
IC504	H-4	Q415	B-1	Q530	F-5	TP11	C-6
IC511	G-5	Q416	H-2	Q531	F-5	TP12	C-6
IC512	F-6	Q420	F-1	Q532	G-5	TP13	F-4
IC520	G-4	Q421	F-3	Q535	H-5		
IC521	B-3	Q501	H-4	Q537	G-5		
IC522	B-3	Q502	H-4	Q540	G-4		
IC523	G-4	Q503	H-5	Q541	G-4		
		Q504	B-2	Q542	F-5		
		Q506	B-3	Q543	G-4		
		Q508	G-5	Q544	G-5		
		Q509	G-5	Q545	F-4		
		Q510	G-5	Q546	G-5		
		Q511	B-4	Q547	H-4		
		Q512	B-3	Q550	H-5		
		Q513	B-3	Q551	H-5		
		Q514	B-2	Q552	H-5		
		Q515	B-2	Q553	G-6		
				Q554	G-6		

PF-BOARD
TXNPF10QBS


LIVE CIRCUIT
HOT
充電
非充電
COLD
T3.15AL250V
CAUTION
LIVE CIRCUIT
CAUTION
HOT
充電
T8AH250V
T8AH250V
CAUTION
COLD
非充電
C902
C903
C912
PF9
PF10
TP902
D921
R926
R927
R928
D923
C923
Q903
C925
TP903
D922
TP901
D920
RL901
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L902
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F902
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C921
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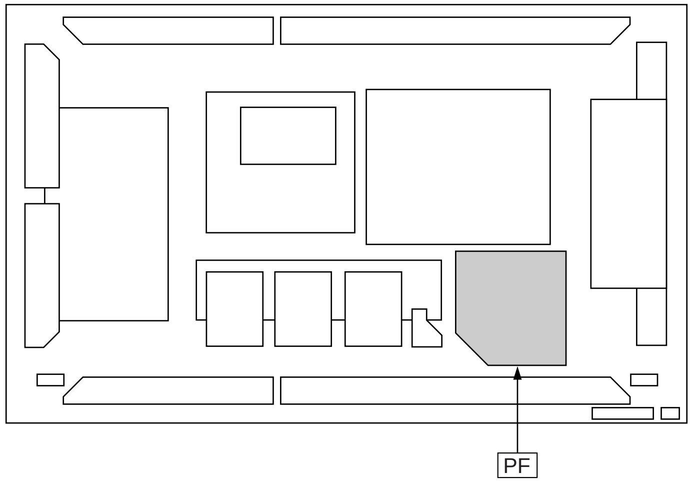
P1
L906
C919
C901
R906
C915
D904
R907
F900
D906
C
S
D
IC901
PF1
D903
C917
C918
C916
R905
C914
R904
D901
R902
R901
F901
94V-0
1
PF
PbF
TNPA2813
SEE REVERSE FOR ORDER NO.

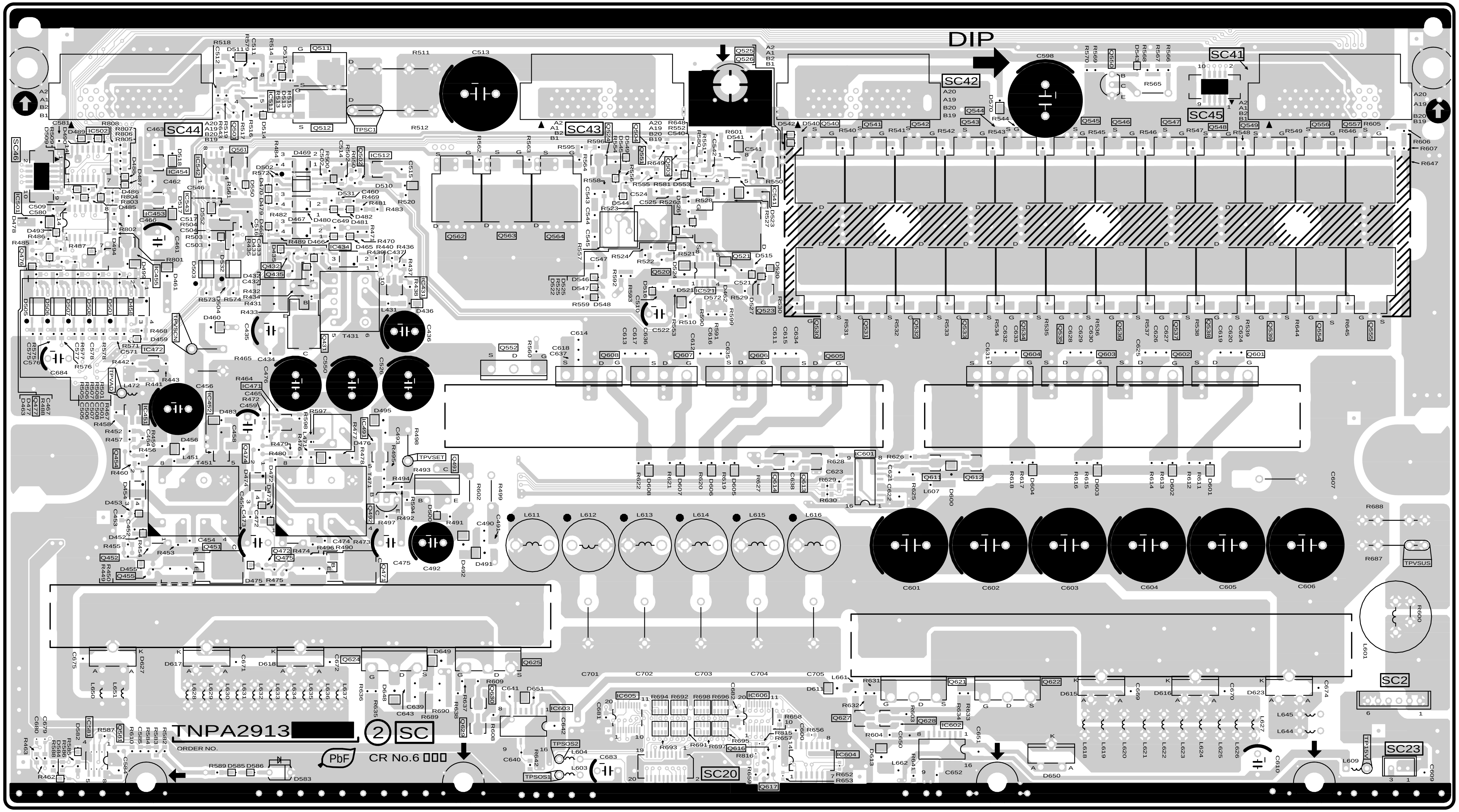


Parts Location

PF-BOARD			
IC		**TP**	
IC901	B-2	TP901	B-4
IC902	A-4	TP902	A-5
TRANSISTOR		TP903	A-4
Q903	B-4	TP904	B-4

TH-42PHD6/TH-42PHW6
PF-BOARD TXNPF10QBS

SC-BOARD(COMPONENT SIDE)
TXNSC10QJS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SC42
SC43
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SC45
SC46
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SC20
SC23
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ORDER NO.
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PbF
CR No.6
TPSC1
TPVSCN
TPVAD
TPVSET
TPVSUS
TPSOS1
TPSOS2
TP15V
C513
C598
C601
C602
C603
C604
C605
C606
C492
L611
L612
L613
L614
L615
L616
C701
C702
C703
C704
C705
D650
L601
R600

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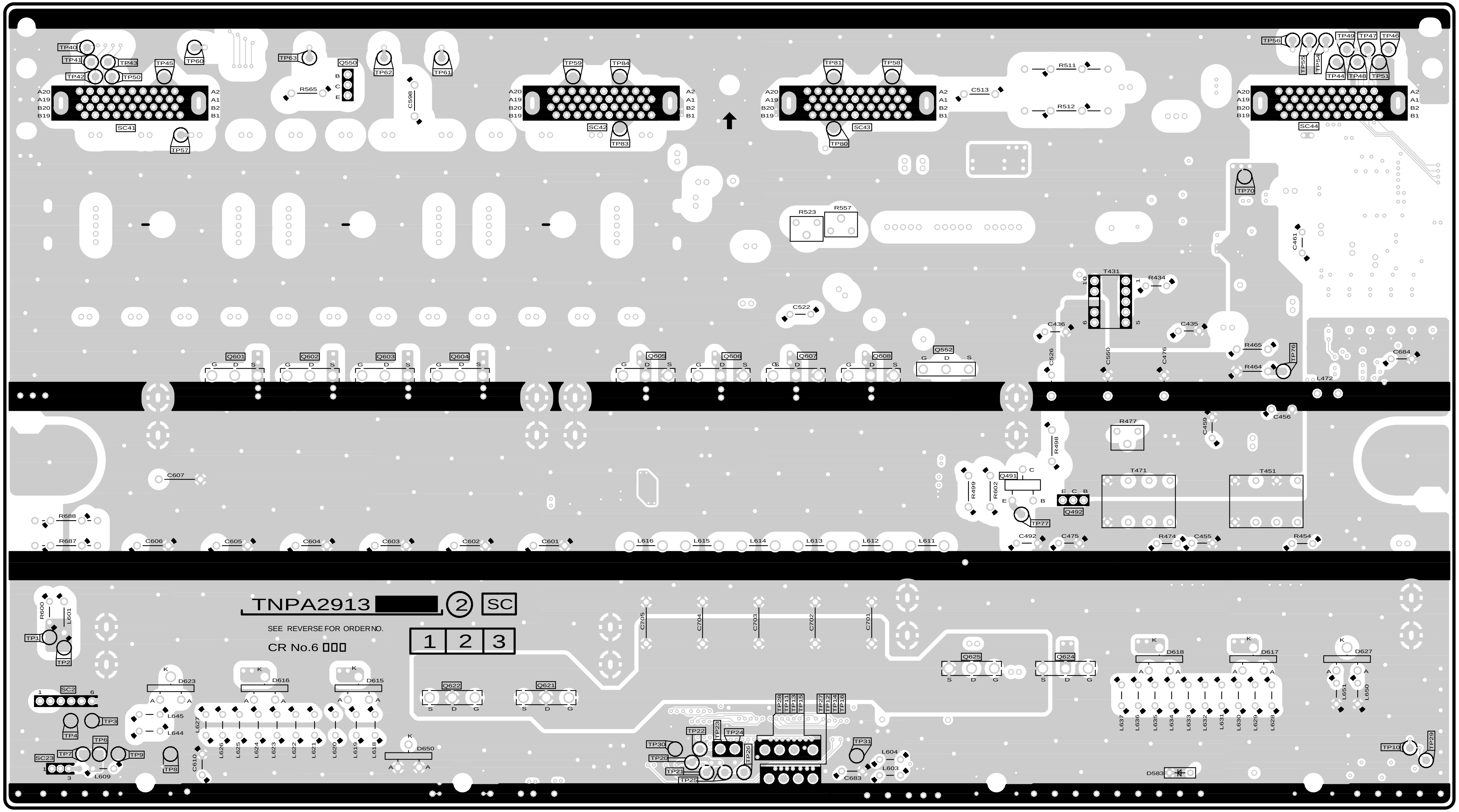
A B C D E F G H I

SC-BOARD(FOIL SIDE)
TXNSC10QJS



TNPA2913
②
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SEE REVERSE FOR ORDER NO.
CR No.6
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SC41
SC42
SC43
SC44
SC2
SC23
A20
A19
B20
B19
A2
A1
B2
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Q624
Q625
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R557
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D650
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TP84
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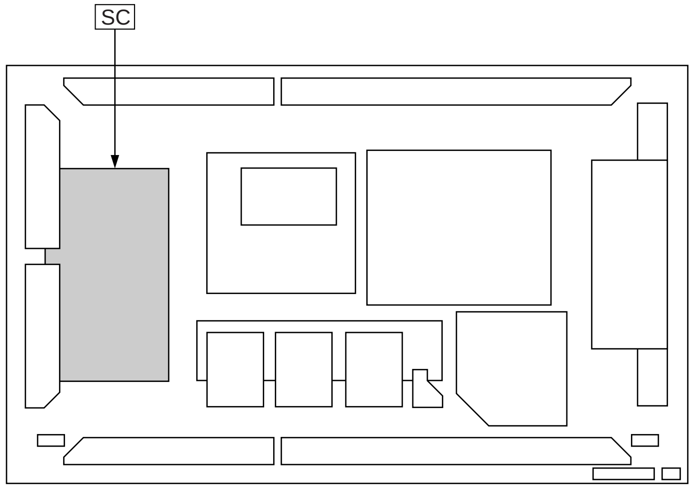

Parts Location

SC-BOARD (FOIL SIDE)

TRANSISTOR		TP		TP41	A-5
Q491	F-3	TP1	A-2	TP42	A-5
Q492	G-3	TP2	A-2	TP43	B-5
Q550	C-5	TP3	A-2	TP44	H-5
Q552	F-4	TP4	A-2	TP45	B-5
Q601	B-4	TP6	A-2	TP46	H-5
Q602	C-4	TP7	A-2	TP47	H-5
Q603	C-4	TP8	B-1	TP48	H-5
Q604	C-4	TP9	B-2	TP49	H-5
Q605	D-4	TP10	I-2	TP50	B-5
Q606	E-4	TP11	E-2	TP51	H-5
Q607	E-4	TP12	E-2	TP54	H-5
Q608	F-4	TP13	E-2	TP55	H-5
Q621	D-2	TP14	E-2	TP56	H-5
Q622	C-2	TP16	E-2	TP57	B-5
Q624	G-2	TP20	E-1	TP58	F-5
Q625	F-2	TP20	I-2	TP59	D-5
		TP21	E-1	TP60	B-5
		TP22	E-2	TP61	C-5
		TP23	E-2	TP62	C-5
		TP24	E-2	TP63	C-5
		TP26	E-1	TP70	H-5
		TP26	E-1	TP76	H-4
		TP27	E-2	TP77	G-3
		TP28	E-2	TP80	E-5
		TP30	E-2	TP81	E-5
		TP31	F-2	TP83	D-5
		TP40	A-5	TP84	D-5

Parts Location

SC-BOARD (COMPONENT SIDE)

IC		TRANSISTOR		Q543	F-5	TP	
IC431	C-4	Q431	C-4	Q544	F-5	TP16V	H-1
IC434	C-4	Q432	B-4	Q545	G-5	TPSC1	C-5
IC451	B-3	Q435	B-4	Q546	G-5	TPSOS1	D-1
IC452	B-3	Q451	B-3	Q547	G-5	TPSOS2	D-2
IC453	B-5	Q452	A-3	Q548	H-5	TPVAD	A-4
IC454	B-5	Q454	A-3	Q549	H-5	TPVSCN	B-4
IC455	B-4	Q455	B-3	Q551	D-5	TPVSET	C-3
IC471	B-4	Q471	C-3	Q552	D-4	TPVSUS	I-3
IC472	B-4	Q472	B-3	Q554	H-4		
IC491	C-3	Q474	B-3	Q555	H-4		
IC501	A-5	Q475	B-3	Q556	H-5		
IC502	A-5	Q476	A-4	Q557	H-5		
IC511	B-5	Q477	A-3	Q560	G-5		
IC512	C-5	Q491	C-3	Q561	B-5		
IC521	E-4	Q492	C-3	Q562	C-4		
IC541	E-5	Q501	B-5	Q563	D-4		
IC542	B-5	Q502	C-5	Q564	D-4		
IC543	B-5	Q503	E-5	Q581	A-2		
IC581	A-2	Q504	D-5	Q601	H-4		
IC601	F-3	Q511	C-5	Q602	G-4		
IC602	F-2	Q512	C-5	Q603	G-4		
IC603	D-2	Q520	D-4	Q604	G-4		
IC604	E-2	Q521	E-4	Q605	E-4		
IC605	D-2	Q523	E-4	Q606	E-4		
IC606	E-2	Q524	D-5	Q607	E-4		
		Q525	E-5	Q608	D-4		
		Q526	E-5	Q611	F-3		
		Q530	E-4	Q612	F-3		
		Q531	F-4	Q613	E-3		
		Q532	F-4	Q614	E-3		
		Q533	F-4	Q616	E-2		
		Q534	F-4	Q617	E-1		
		Q535	G-4	Q621	F-2		
		Q536	G-4	Q622	G-2		
		Q537	G-4	Q624	C-2		
		Q538	H-4	Q625	D-2		
		Q539	H-4	Q627	F-2		
		Q540	E-5	Q628	F-2		
		Q541	F-5	Q629	C-2		
		Q542	F-5	Q630	D-2		

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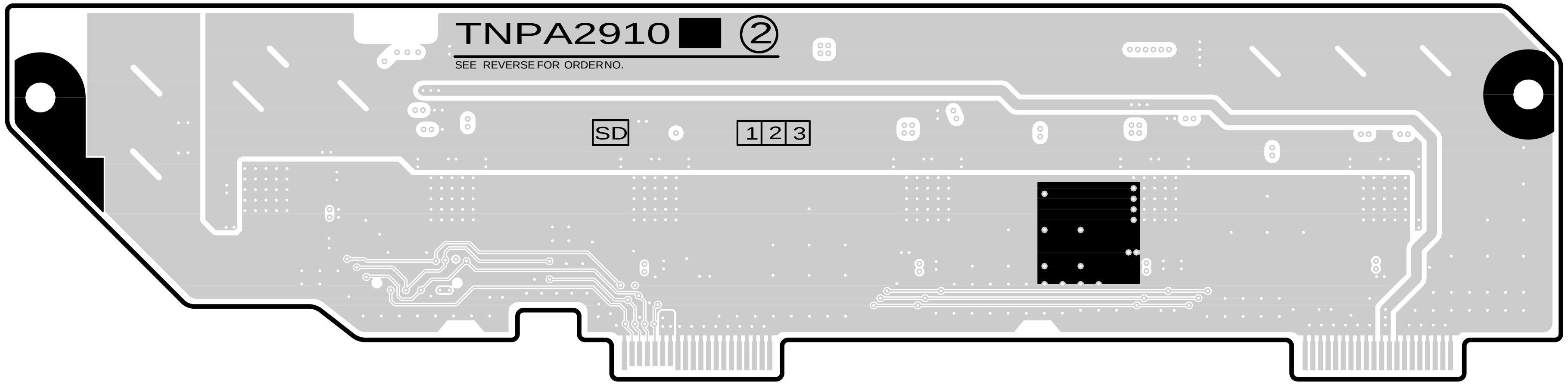
SD-BOARD(FOIL SIDE)
TNPA2910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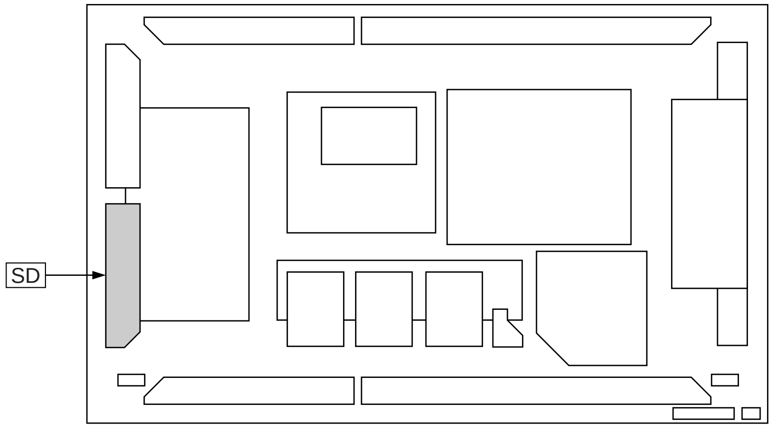
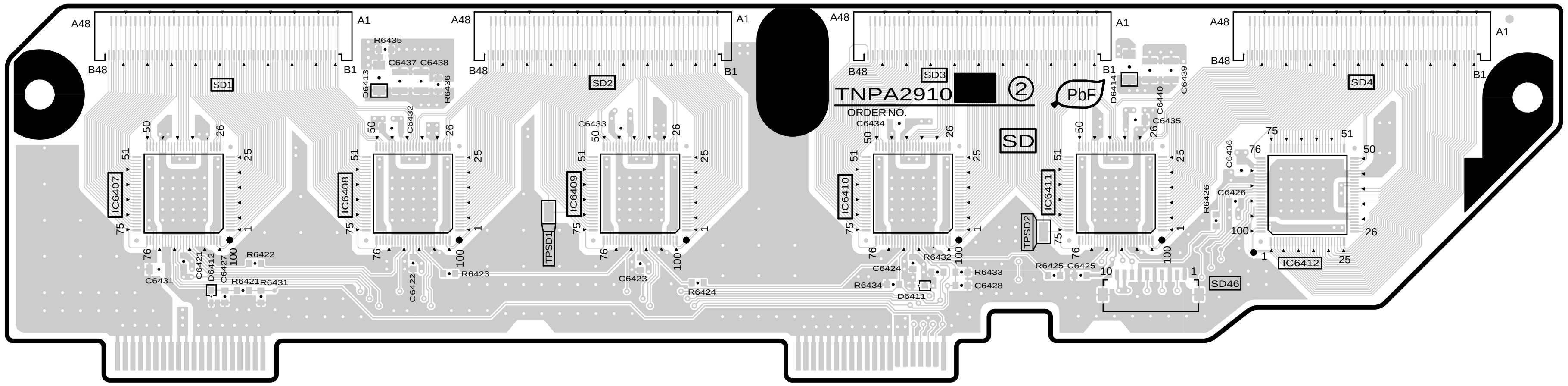
②
SEE REVERSE FOR ORDER NO.
SD
1 2 3



SD-BOARD(COMPONENT SIDE)
TNPA2910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B1
SD1
SD2
SD3
SD4
SD46
SD
TNPA2910
②
ORDER NO.
PbF
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IC6408
IC6409
IC6410
IC6411
IC6412
TPSD1
TPSD2
D6411
D6412
D6413
D6414
R6421
R6422
R6423
R6424
R6425
R6426
R6431
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R6434
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R6436
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1
25
26
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51
75
76
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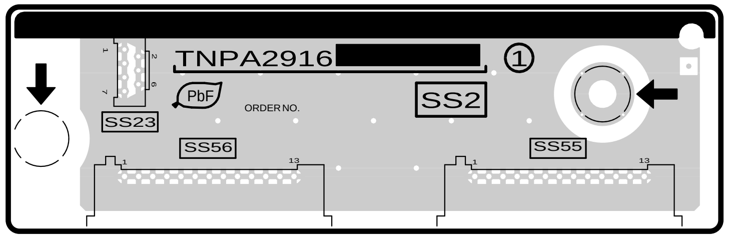
TH-42PHD6/TH-42PHW6
SD-BOARD TNPA2910

A B C D E F G H I

SS2-BOARD(COMPONENT SIDE)
TNPA2916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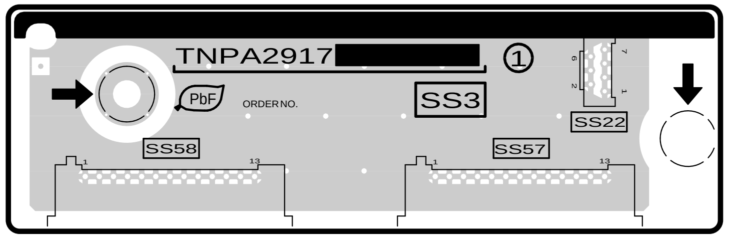
①
PbF
ORDER NO.
SS2
SS23
SS56
SS55
1
13

SS3-BOARD(COMPONENT SIDE)
TNPA2917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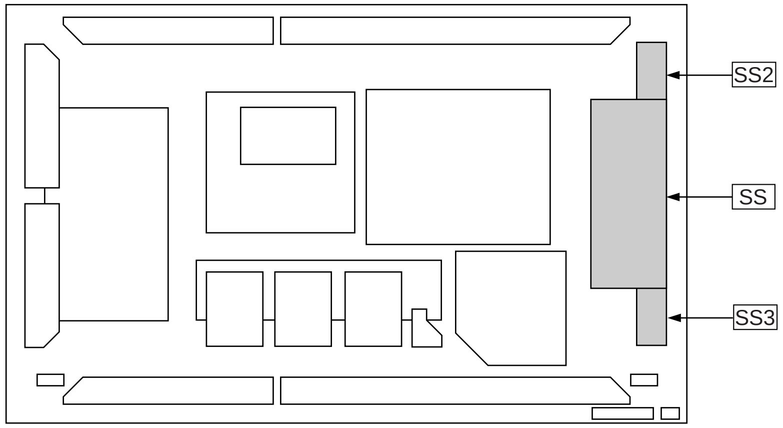
①
PbF
ORDER NO.
SS3
SS22
SS58
SS57
1
13



Parts Location

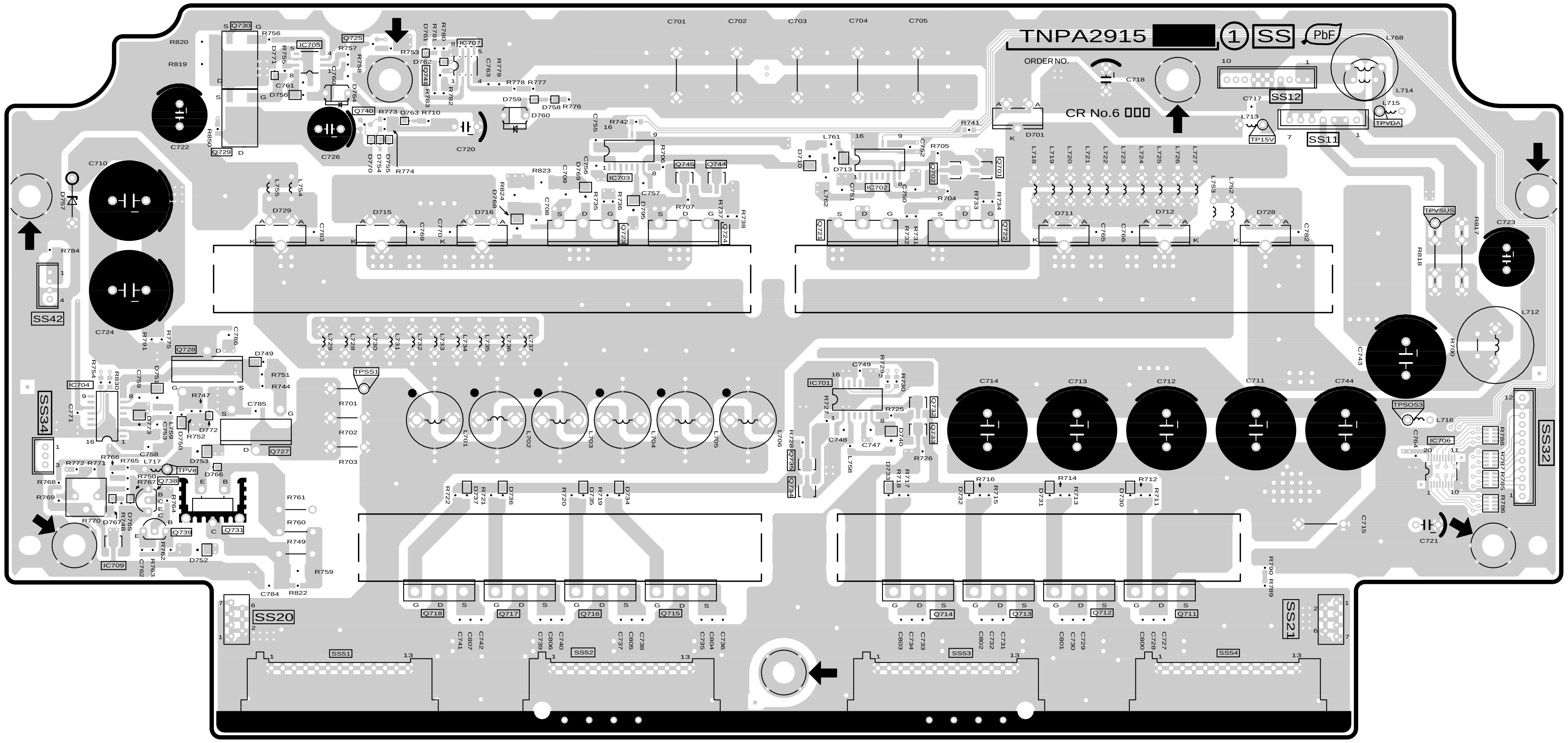
SS-BOARD (COMPONENT SIDE)

IC	
IC701	D-2
IC702	D-3
IC703	C-3
IC704	A-2
IC705	B-4
IC706	G-2
IC707	C-4
IC709	A-2

TRANSISTOR	
Q701	E-3
Q702	E-3
Q711	F-2
Q712	E-2
Q713	E-2
Q714	E-2
Q715	D-2
Q716	C-2
Q717	C-2
Q718	C-2
Q721	D-3
Q722	E-3
Q723	C-3
Q724	D-3
Q725	B-4
Q727	B-2
Q728	B-3
Q729	B-4
Q730	B-4
Q731	B-2
Q732	E-2
Q733	E-2
Q734	D-2
Q735	D-2
Q738	A-2
Q739	A-2
Q740	B-4
Q741	C-4
Q744	D-3
Q745	D-3

TP	
TP15V	F-4
TPSOS3	G-2
TPSS1	B-2
TPVDA	F-4
TPVe	A-2
TPVSUS	G-3

SS-BOARD(COMPONENT SIDE)
TXNSS10QJS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ORDER NO.
CR No.6
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SS42
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SS20
SS21
SS32
SS51
SS52
SS53
SS54
TP15V
TPVDA
TPVSUS
TPSOS3
TPSS1
TPVe
C701
C702
C703
C704
C705
C710
C711
C712
C713
C714
C722
C723
C724
C726
C743
C744
L712
L768
IC701
IC702
IC703
IC704
IC705
IC706
IC707
IC709
Q711
Q712
Q713
Q714
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Q716
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Q718
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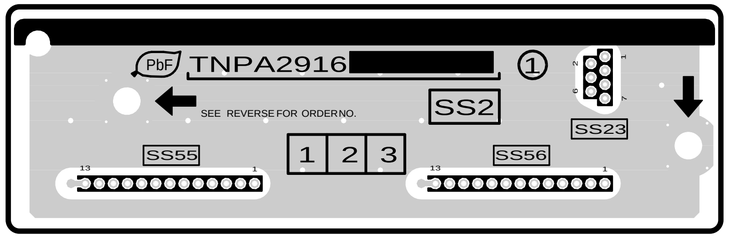
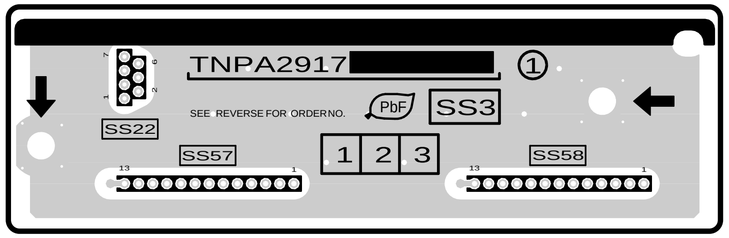
D712
D715
D716
D728
D729

SS2-BOARD(FOIL SIDE)
TNPA2916


PbF
TNPA2916
①
SEE REVERSE FOR ORDER NO.
SS2
SS23
SS55
SS56
1 2 3
13
1

SS3-BOARD(FOIL SIDE)
TNPA2917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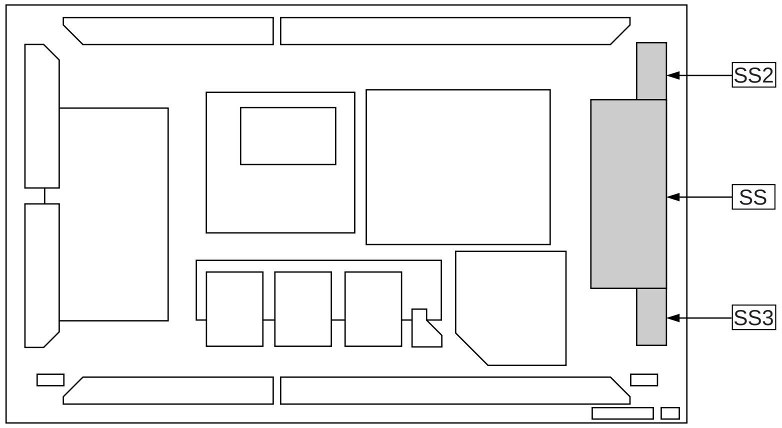
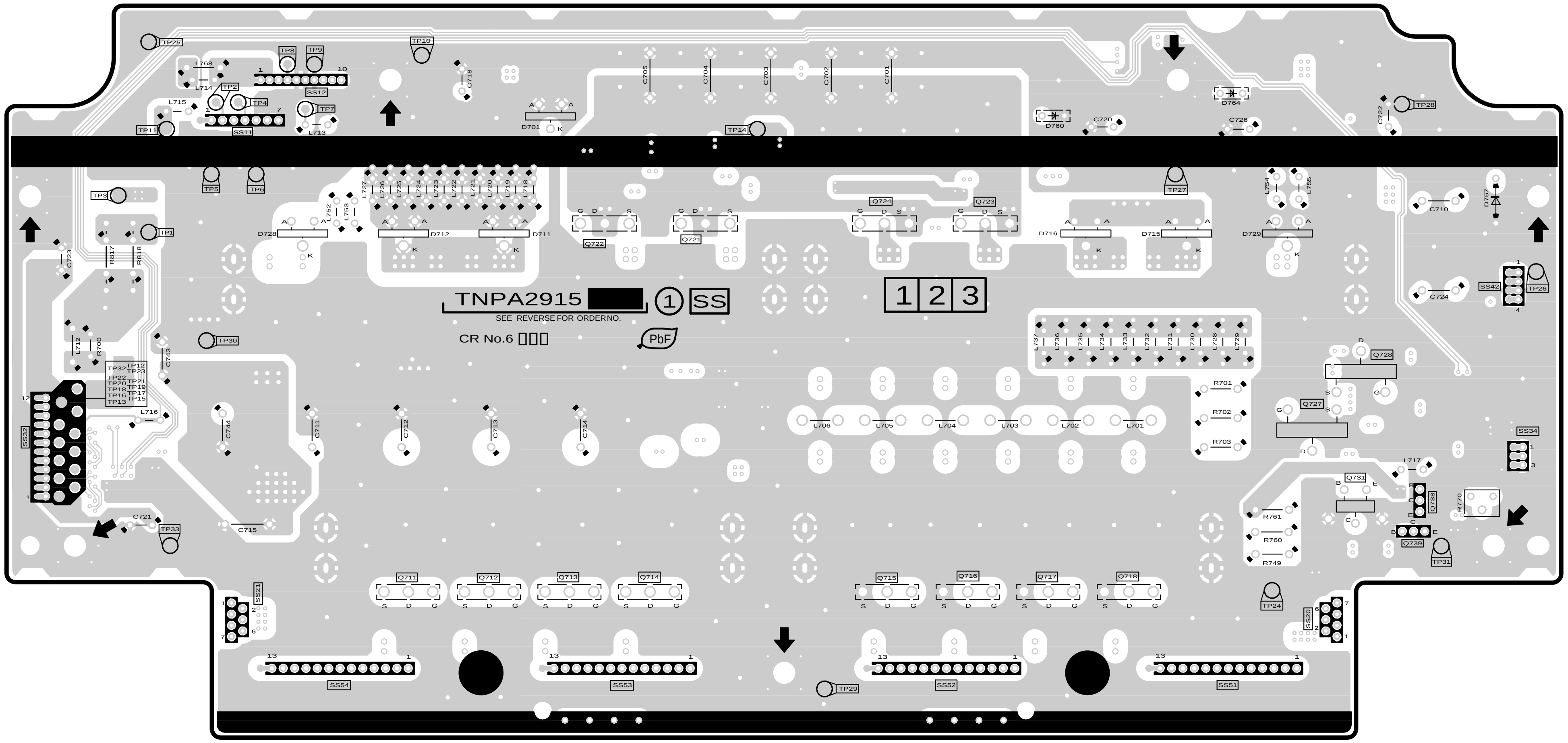
SS22
SS57
SS58
1 2 3
13
1



Parts Location

SS-BOARD (FOIL SIDE)					
TRANSISTOR		**TP**			
Q711	B-2	TP2	B-4	TP18	A-2
Q712	C-2	TP3	A-3	TP19	A-2
Q713	C-2	TP4	B-4	TP20	A-3
Q714	C-2	TP5	B-3	TP21	A-3
Q715	D-2	TP6	B-3	TP22	A-3
Q716	E-2	TP7	B-4	TP23	A-3
Q717	E-2	TP8	B-4	TP24	F-2
Q718	E-2	TP9	B-4	TP25	A-4
Q721	D-3	TP10	C-4	TP26	G-3
Q722	C-3	TP11	A-4	TP27	F-3
Q723	E-3	TP11	A-3	TP28	G-4
Q724	D-3	TP12	A-3	TP29	D-1
Q727	F-2	TP13	A-2	TP30	B-3
Q728	F-3	TP14	D-4	TP31	G-2
Q731	F-2	TP15	A-2	TP32	A-3
Q738	G-2	TP16	A-2	TP33	A-2
Q739	G-2	TP17	A-2		

SS-BOARD(FOIL SIDE)
TXNSS10QJS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TP2
TP4
L715
TP7
SS12
SS11
TP11
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C718
D701
TP14
C705
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C703
C702
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C720
D764
C726
C722
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TP5
TP6
TP3
TP1
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R818
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D728
D712
D711
L752
L753
Q722
Q721
Q724
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D716
D715
D729
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C710
D767
C724
SS42
TP26
TP30
L712
R700
C743
TP32
TP12
TP23
TP22
TP21
TP20
TP19
TP18
TP17
TP16
TP15
TP13
SS32
L716
C744
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R702
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Q727
SS34
L717
Q731
Q738
R770
Q739
R761
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R749
TP31
C721
TP33
C715
Q711
Q712
Q713
Q714
Q715
Q716
Q717
Q718
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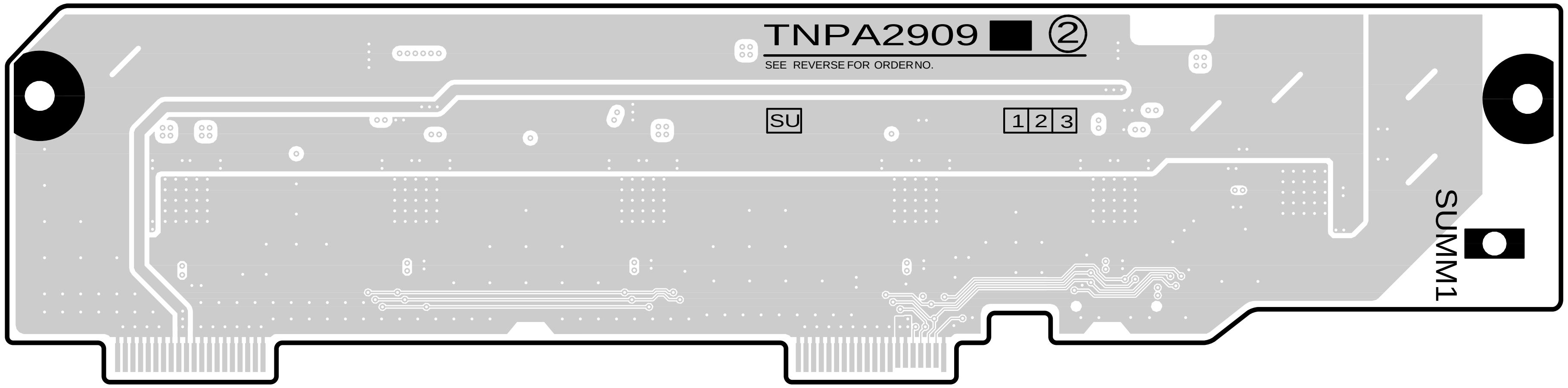
SU-BOARD(FOIL SIDE)
TNPA2909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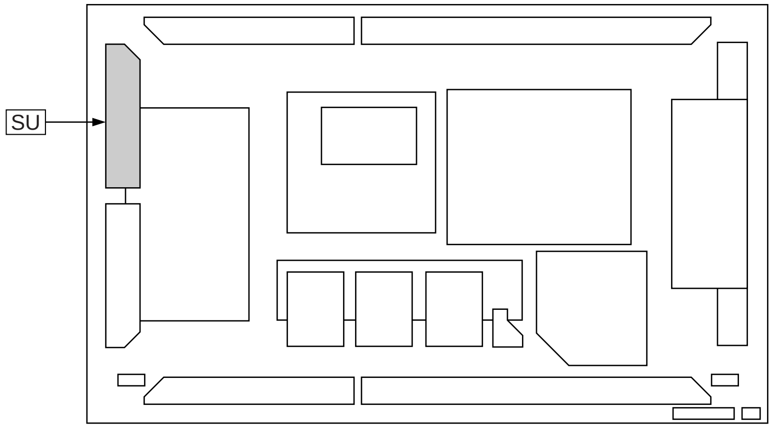
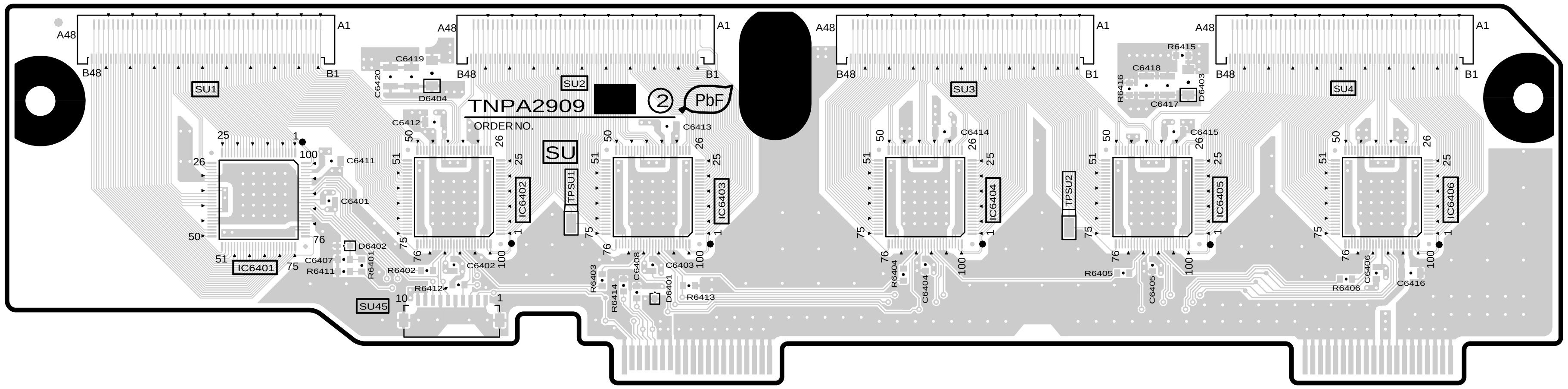
SEE REVERSE FOR ORDER NO.
SU
1 2 3
SUMM1



SU-BOARD(COMPONENT SIDE)
TNPA2909


A48
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B1
SU1
SU2
SU3
SU4
SU45
TNPA2909 ②
PbF
ORDER NO.
SU
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IC6402
IC6403
IC6404
IC6405
IC6406
TPSU1
TPSU2
C6401
C6402
C6403
C6404
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C6407
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R6412
R6413
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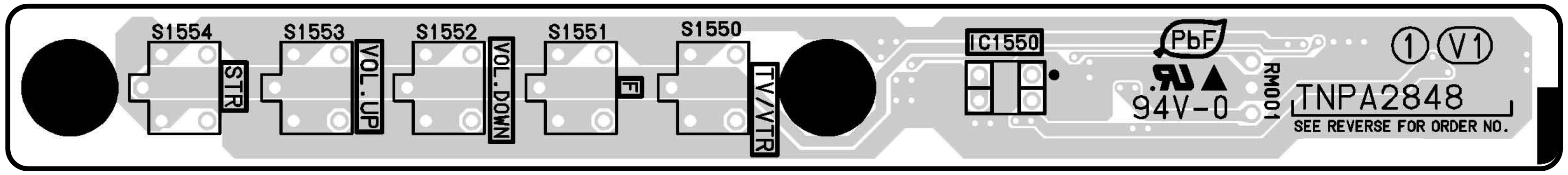
V1-BOARD(FOIL SIDE)
TXNV110QJS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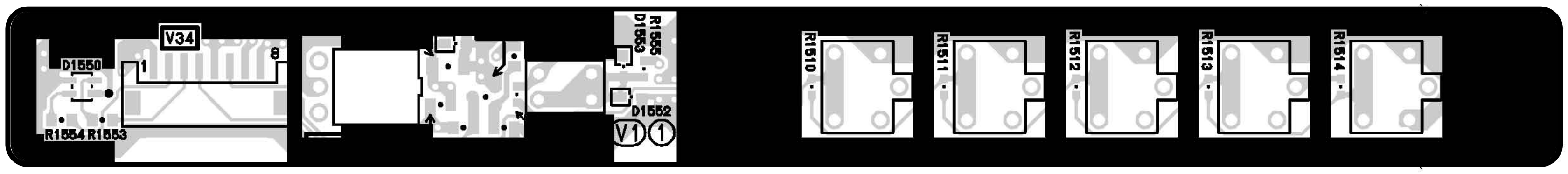
STR
S1553
VOL.UP
S1552
VOL.DOWN
S1551
S1550
TV/VTR
IC1550
PbF
94V-0
RM001
TNPA2848
SEE REVERSE FOR ORDER NO.
1
V1

V1-BOARD(COMPONENT SIDE)
TXNV110QJS


V34
D1550
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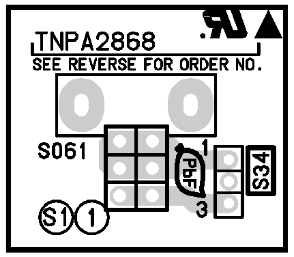
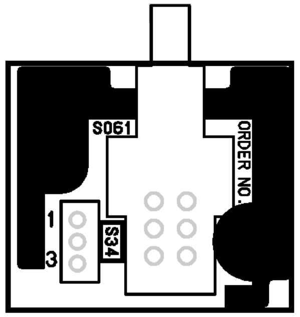
8
R1554 R1553
R1555
D1553
D1552
V1
1
R1510
R1511
R1512
R1513
R1514

S1-BOARD(FOIL SIDE)
TNPA2868AB


TNPA2868
SEE REVERSE FOR ORDER NO.
S061
1
3
PbF
S34
S1
1

S1-BOARD(COMPONENT SIDE)
TNPA2868AB


S061
ORDER NO.
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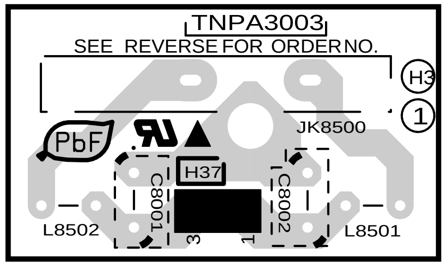
3
S34

H3-BOARD
TNPA3003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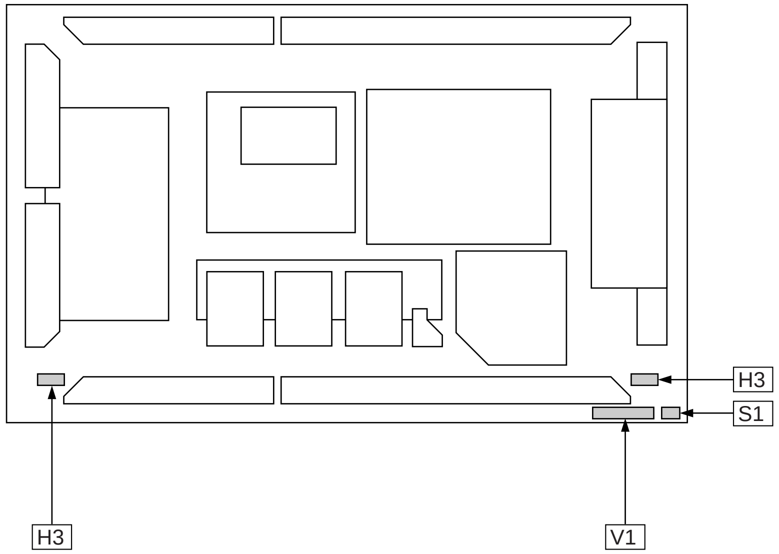
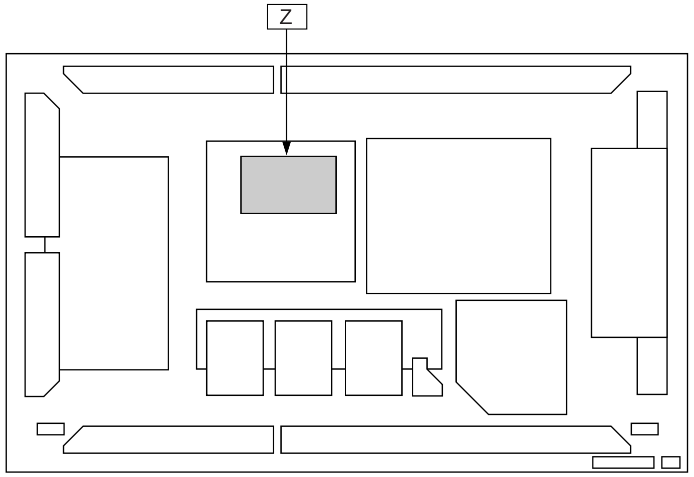
SEE REVERSE FOR ORDER NO.
H3
1
JK8500
PbF
H37
C8001
C8002
3
1
L8502
L8501



TH-42PHD6UY
V1-BOARD TXNV110QJS
S1-BOARD TNPA2868AB
H3-BOARD TNPA3003

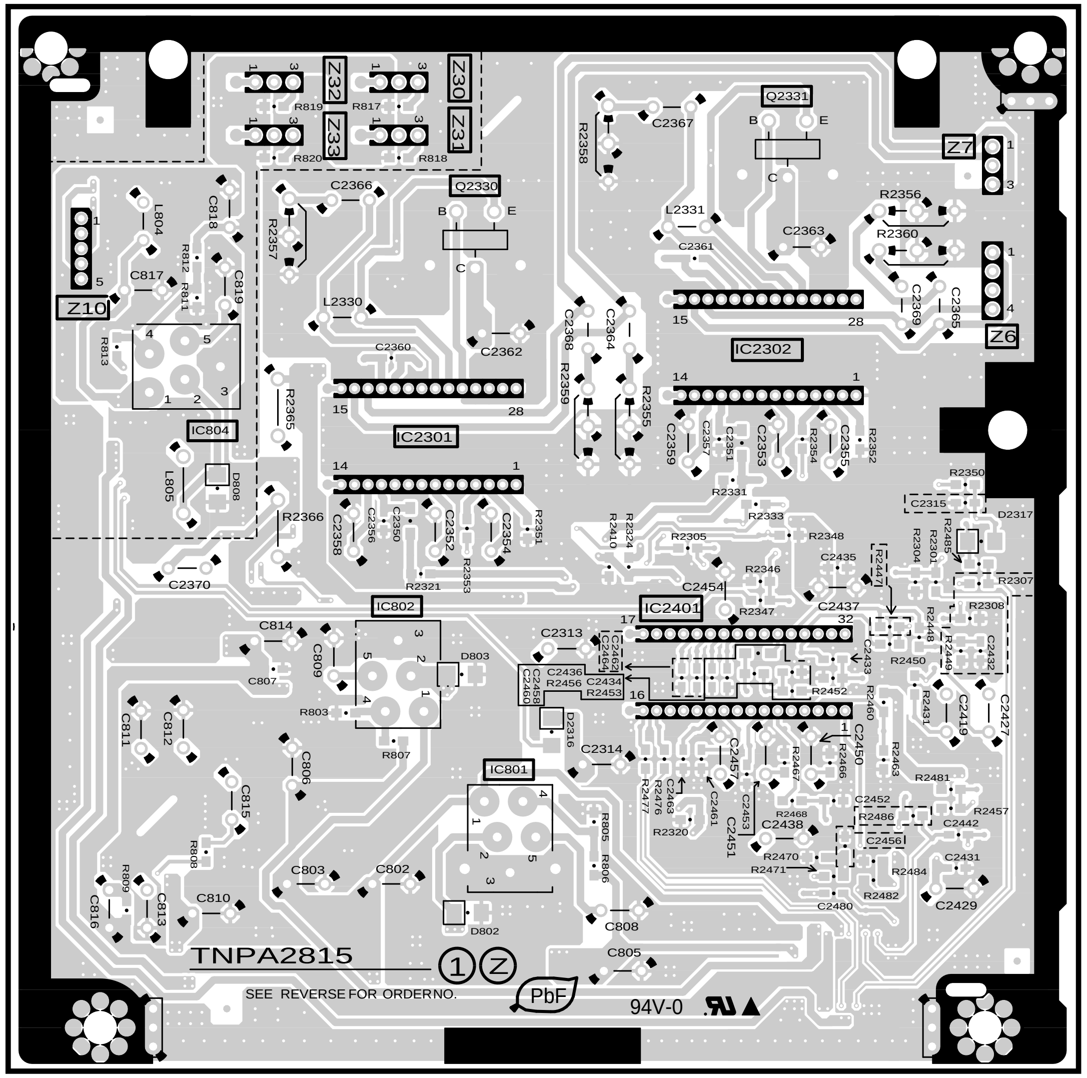
TH-42PHD6UY
V1-BOARD TXNV110QJS
S1-BOARD TNPA2868AB
H3-BOARD TNPA3003



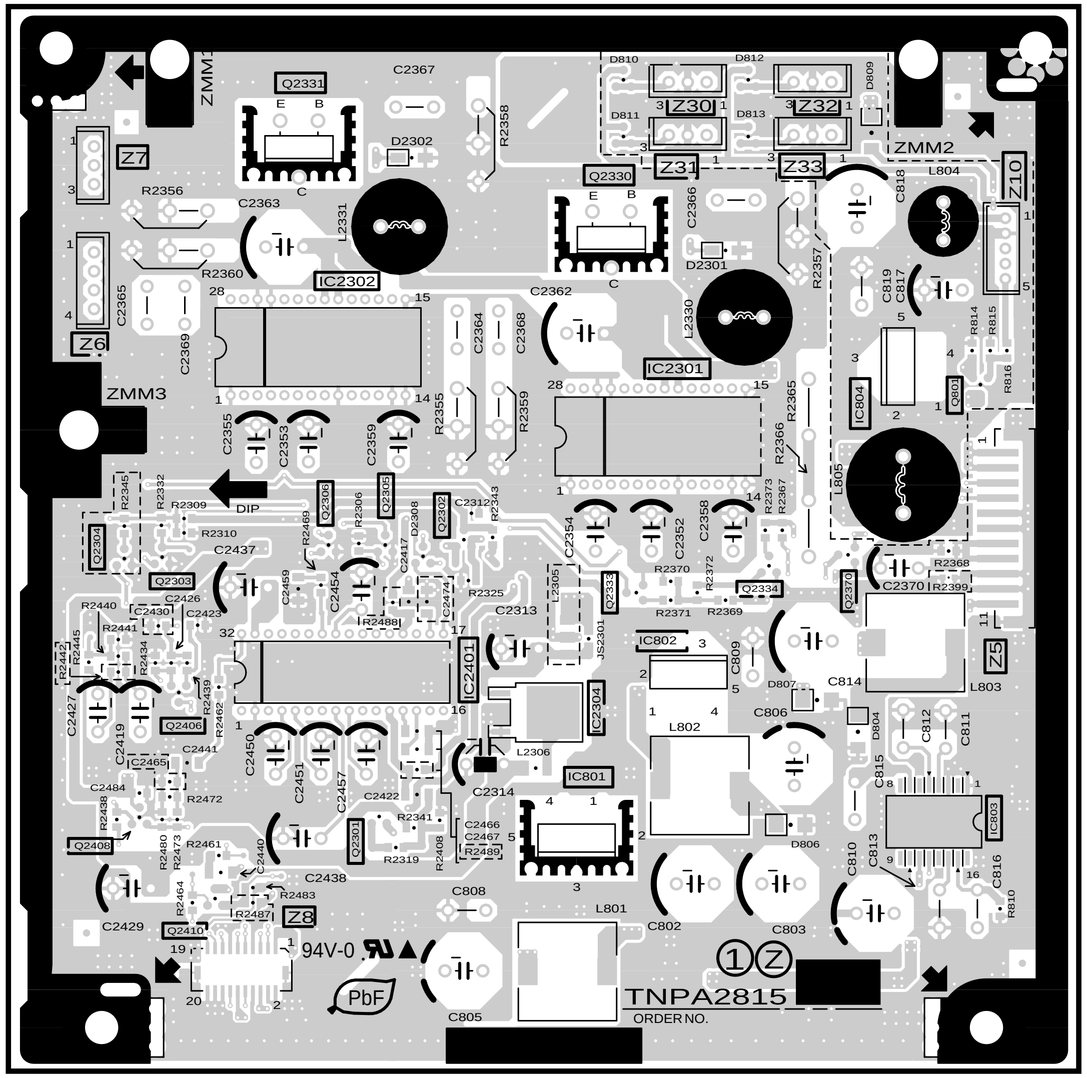
Parts Location

Z-BOARD			
IC		**TRANSISTOR**	
IC2301	B-3	Q2301	F-2
IC2301	G-3	Q2302	F-3
IC2302	C-3	Q2303	F-3
IC2302	F-4	Q2304	E-3
IC2304	G-2	Q2305	F-3
IC2401	C-2	Q2306	F-3
IC2401	F-2	Q2330	B-4
IC801	B-2	Q2330	G-4
IC801	G-2	Q2331	C-4
IC802	B-2	Q2331	F-4
IC802	G-2	Q2333	G-3
IC803	H-2	Q2334	G-3
IC804	A-3	Q2370	H-3
IC804	H-3	Q2406	F-2
		Q2408	E-2
		Q2410	F-2
		Q801	H-3

Z-BOARD(FOIL SIDE)
TNPA2815


Z32
Z30
Z33
Z31
Z7
Z6
Z10
Q2331
Q2330
IC2302
IC2301
IC804
IC802
IC2401
IC801
L804
L805
L2330
L2331
C2366
C2367
C2362
C2363
R2356
R2360
R2365
R2366
C2370
C814
C809
C811
C812
C806
C815
C803
C802
C810
C816
C813
C808
C805
D802
D803
D808
C2313
C2314
C2454
C2437
C2450
C2438
C2429
C2427
C2419
TNPA2815
SEE REVERSE FOR ORDER NO.
PbF
94V-0

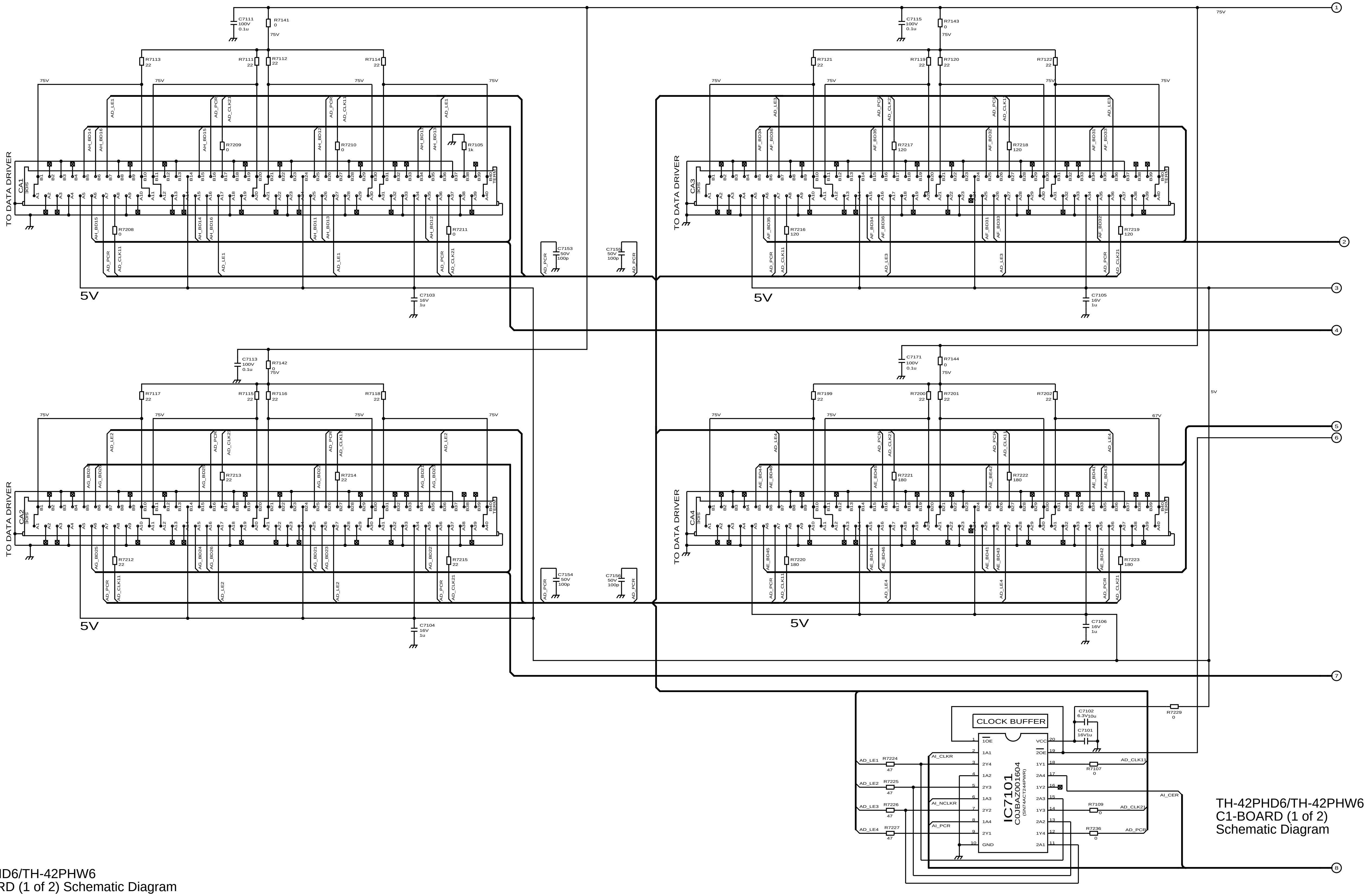
Z-BOARD(COMPONENT SIDE)
TNPA2815


ZMM1
ZMM2
ZMM3
Q2331
Q2330
C2367
D2302
D2301
Z7
Z6
Z30
Z32
Z31
Z33
Z10
Z5
Z8
IC2302
IC2301
IC2401
IC2304
IC801
IC802
IC803
IC804
Q801
Q2303
Q2304
Q2305
Q2306
Q2301
Q2302
Q2333
Q2334
Q2370
Q2406
Q2408
Q2410
L804
L805
L803
L802
L801
L2306
L2330
L2331
C2363
C2362
C2370
C2314
C2438
C2429
C802
C803
C805
C808
C810
C814
C806
DIP
JS2301
94V-0
PbF
TNPA2815
ORDER NO.

6
5
4
3
2
1

A B C D E F G H I

⚠ C1-BOARD TNPA2899 (1/2)

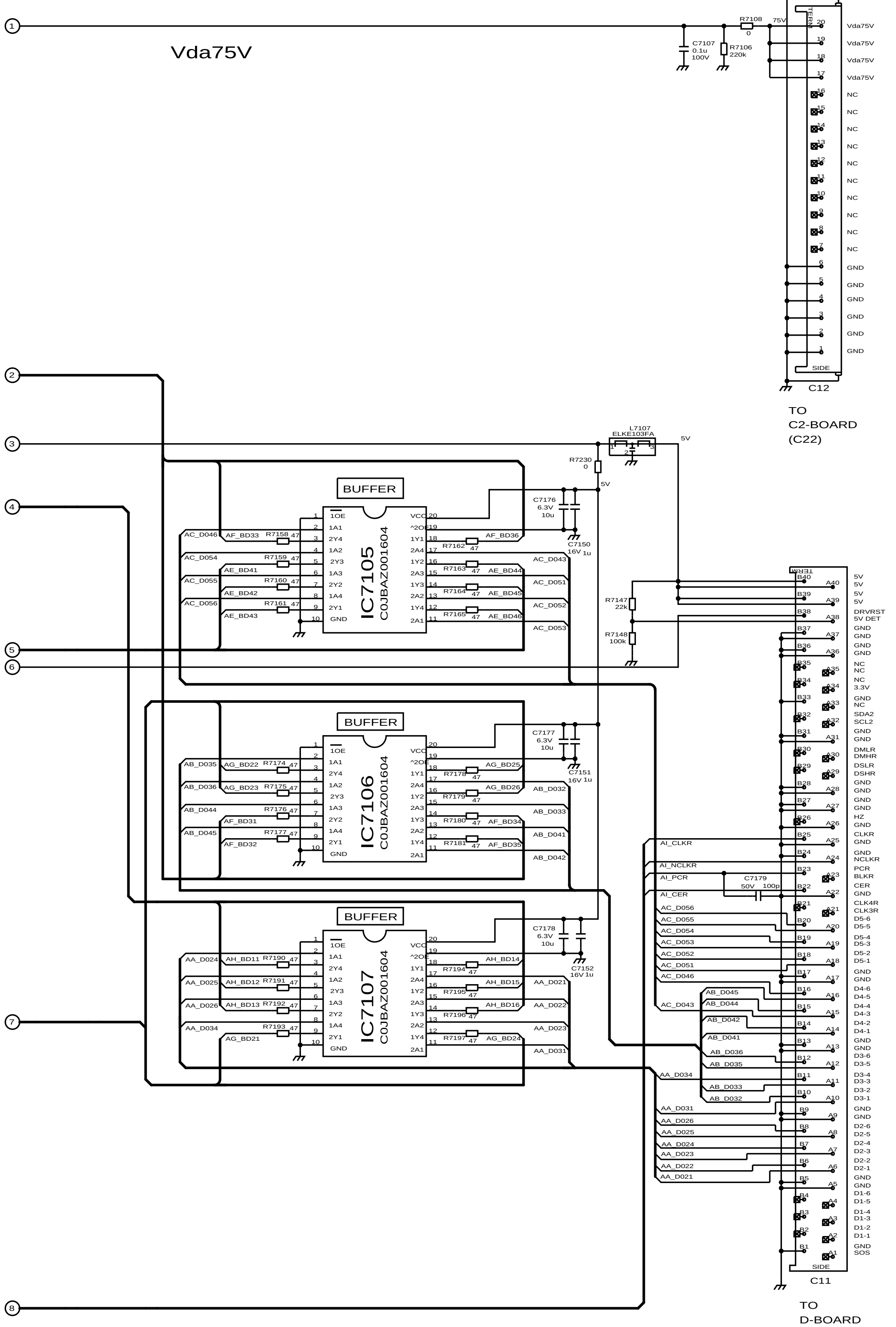


A
B
C
D
E
1
2
3
4
5
6
7
8
TO DATA DRIVER
CA1
CA2
CA3
CA4
5V
75V
67V
C7111 100V 0.1u
R7141 0
C7115 100V 0.1u
R7143 0
C7113 100V 0.1u
R7142 0
C7171 100V 0.1u
R7144 0
R7113 22
R7111 22
R7112 22
R7114 22
R7121 22
R7119 22
R7120 22
R7122 22
R7117 22
R7115 22
R7116 22
R7118 22
R7199 22
R7200 22
R7201 22
R7202 22
R7209 0
R7210 0
R7105 1k
R7208 0
R7211 0
R7217 120
R7218 120
R7216 120
R7219 120
R7213 22
R7214 22
R7212 22
R7215 22
R7221 180
R7222 180
R7220 180
R7223 180
C7153 50V 100p
C7155 50V 100p
C7154 50V 100p
C7156 50V 100p
C7103 16V 1u
C7105 16V 1u
C7104 16V 1u
C7106 16V 1u
AD_LE1
AD_LE2
AD_LE3
AD_LE4
AD_PCR
AD_CLK11
AD_CLK21
AH_BD11
AH_BD12
AH_BD13
AH_BD14
AH_BD15
AH_BD16
AF_BD31
AF_BD32
AF_BD33
AF_BD34
AF_BD35
AF_BD36
AG_BD21
AG_BD22
AG_BD23
AG_BD24
AG_BD25
AG_BD26
AE_BD41
AE_BD42
AE_BD43
AE_BD44
AE_BD45
AE_BD46
CLOCK BUFFER
IC7101
C0JBAZ001604
(SN74ACT244PWR)
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
C7102 6.3V 10u
C7101 16V 1u
R7229 0
R7224 47
R7225 47
R7226 47
R7227 47
R7107 0
R7109 0
R7236 0
AI_CLKR
AI_NCLKR
AI_PCR
AI_CER

TH-42PHD6/TH-42PHW6
C1-BOARD (1 of 2)
Schematic Diagram

TH-42PHD6/TH-42PHW6
C1-BOARD (1 of 2) Schematic Diagram

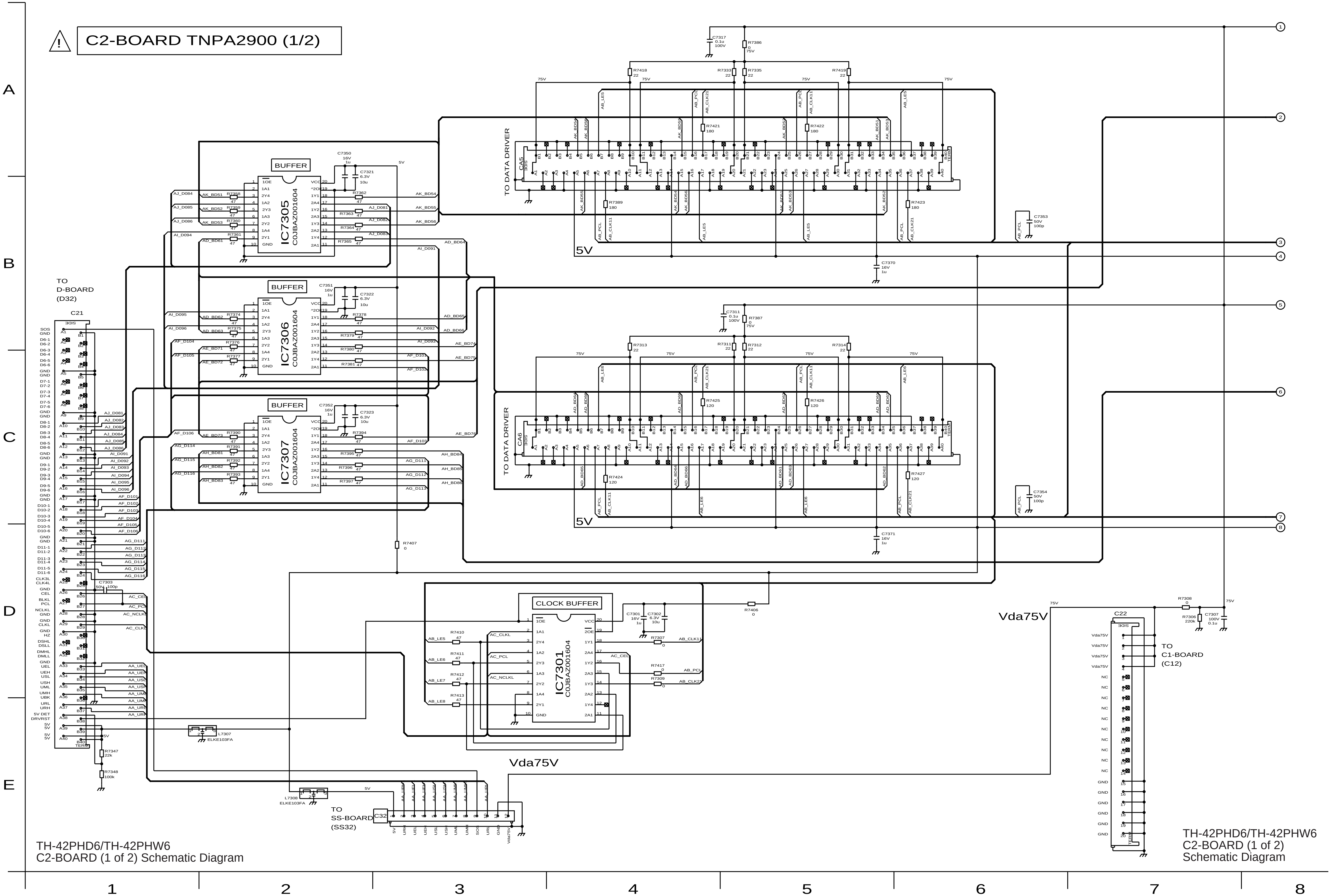
⚠ C1-BOARD TNPA2899 (2/2)


Vda75V
R7108
0
75V
C7107
0.1u
100V
R7106
220k
Vda75V
Vda75V
Vda75V
Vda75V
NC
GND
SIDE
C12
TO
C2-BOARD
(C22)
L7107
ELKE103FA
5V
R7230
0
BUFFER
IC7105
C0JBAZ001604
IC7106
C0JBAZ001604
IC7107
C0JBAZ001604
1OE
VCC
^2OE
GND
C7176
6.3V
10u
C7150
16V 1u
C7177
6.3V
10u
C7151
16V 1u
C7178
6.3V
10u
C7152
16V 1u
R7147
22k
R7148
100k
C7179
50V
100p
AC_D046
AC_D054
AC_D055
AC_D056
AF_BD33
AE_BD41
AE_BD42
AE_BD43
AF_BD36
AC_D043
AE_BD44
AC_D051
AE_BD45
AC_D052
AE_BD46
AC_D053
AB_D035
AB_D036
AB_D044
AB_D045
AG_BD22
AG_BD23
AF_BD31
AF_BD32
AG_BD25
AG_BD26
AB_D032
AB_D033
AF_BD34
AB_D041
AF_BD35
AB_D042
AA_D024
AA_D025
AA_D026
AA_D034
AH_BD11
AH_BD12
AH_BD13
AG_BD21
AH_BD14
AH_BD15
AA_D021
AH_BD16
AA_D022
AA_D023
AG_BD24
AA_D031
AI_CLKR
AI_NCLKR
AI_PCR
AI_CER
5V
DRVRST
5V DET
GND
NC
3.3V
SDA2
SCL2
DMLR
DMHR
DSLR
DSHR
HZ
CLKR
NCLKR
PCR
BLKR
CER
CLK4R
CLK3R
D5-6
D5-5
D5-4
D5-3
D5-2
D5-1
D4-6
D4-5
D4-4
D4-3
D4-2
D4-1
D3-6
D3-5
D3-4
D3-3
D3-2
D3-1
D2-6
D2-5
D2-4
D2-3
D2-2
D2-1
D1-6
D1-5
D1-4
D1-3
D1-2
D1-1
SOS
SIDE
C11
TO
D-BOARD
(D31)
①
②
③
④
⑤
⑥
⑦
⑧

TH-42PHD6/TH-42PHW6 C1-BOARD (2 of 2) Schematic Diagram

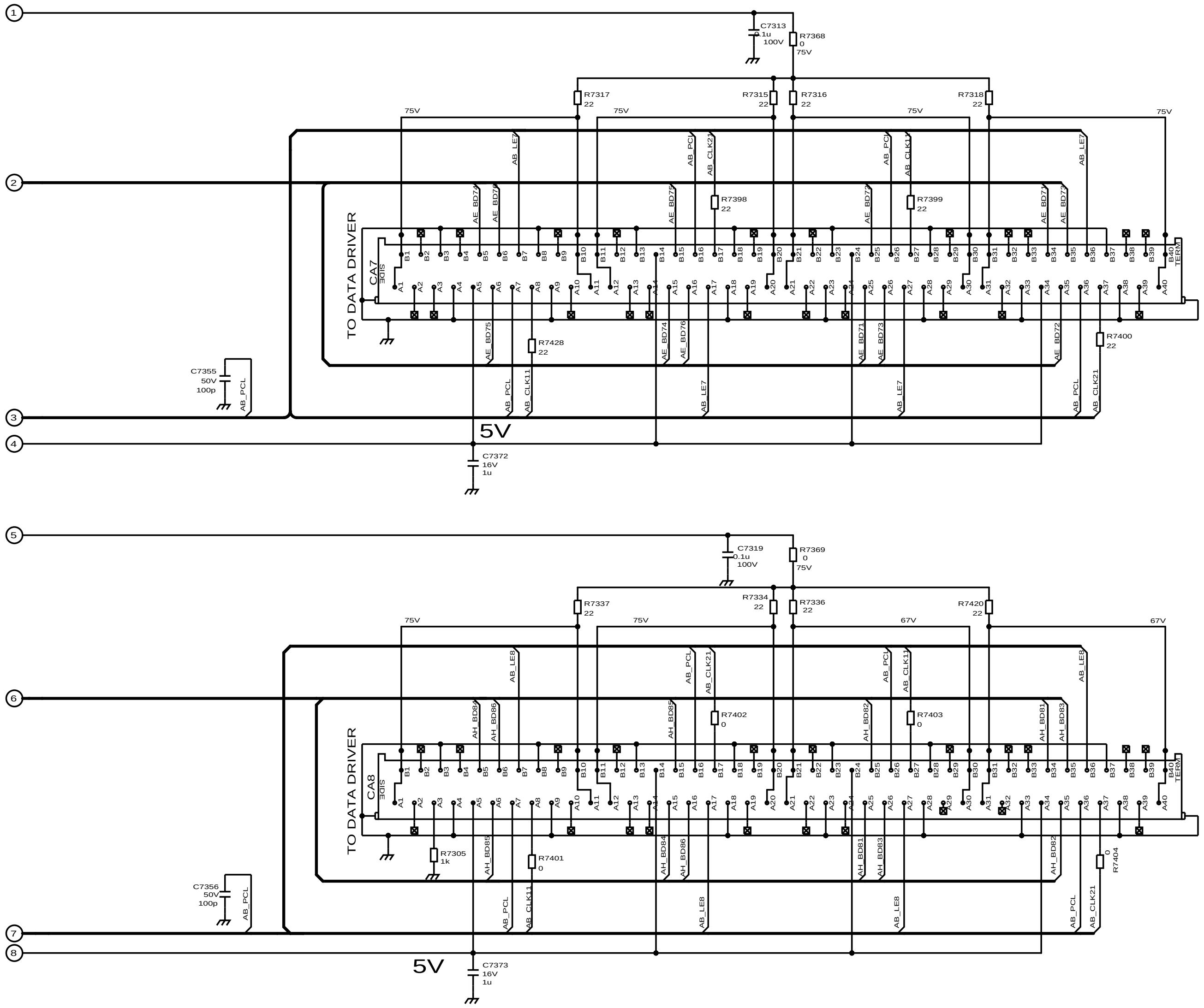
TH-42PHD6/TH-42PHW6
C1-BOARD (2 of 2) Schematic Diagram

C2-BOARD TNPA2900 (1/2)

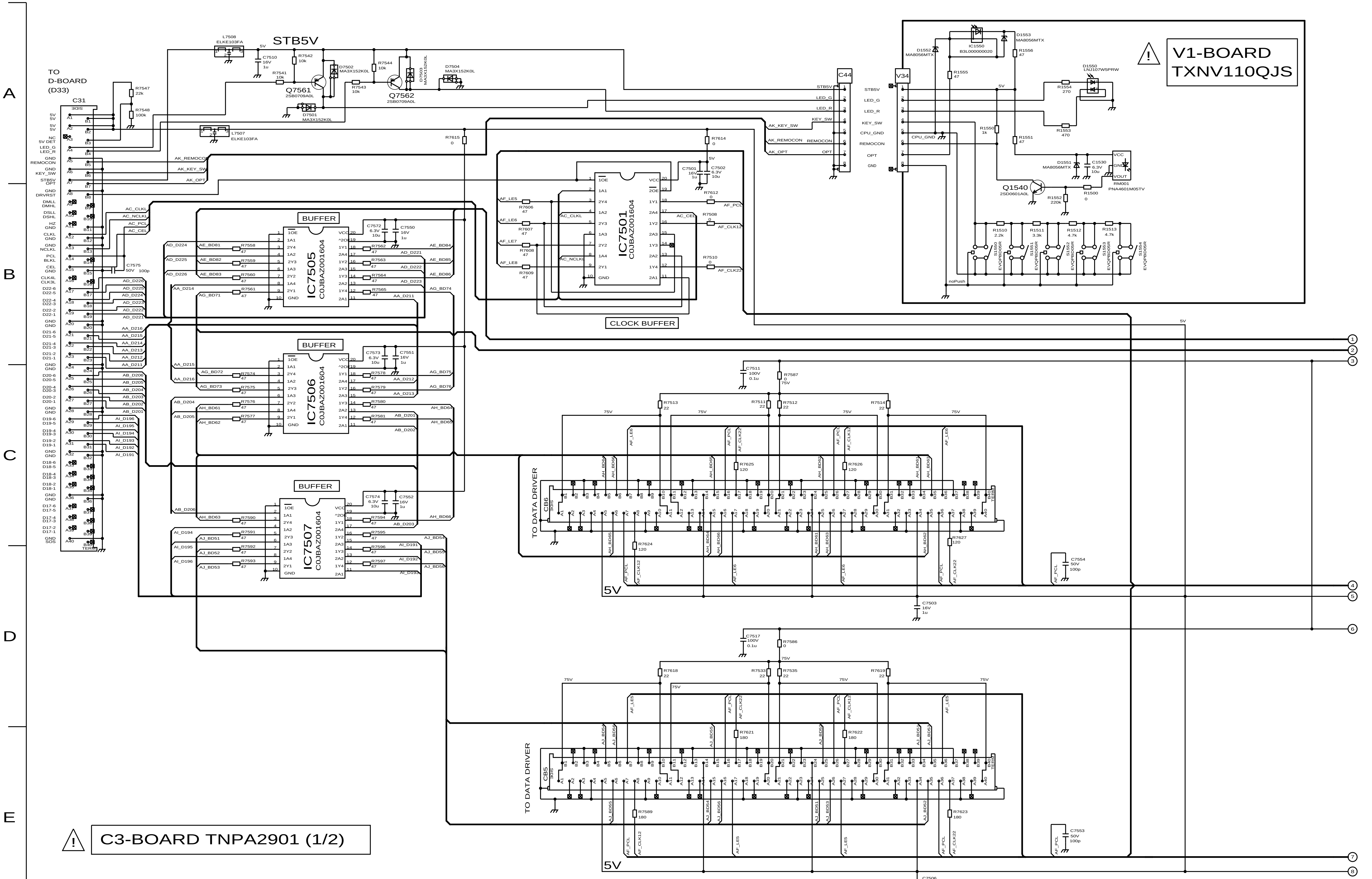

A
B
C
D
E
1
2
3
4
5
6
7
8
TO
D-BOARD
(D32)
C21
BUFFER
IC7305
C0JBAZ001604
BUFFER
IC7306
C0JBAZ001604
BUFFER
IC7307
C0JBAZ001604
C7350 16V 1u
C7321 6.3V 10u
C7351 16V 1u
C7322 6.3V 10u
C7352 16V 1u
C7323 6.3V 10u
C7317 0.1u 100V
R7386 0 75V
R7418 22
R7333 22
R7335 22
R7419 22
R7421 180
R7422 180
R7389 180
R7423 180
C7353 50V 100p
C7370 16V 1u
TO DATA DRIVER
CA5
5V
75V
C7311 0.1u 100V
R7387 0 75V
R7313
R7311 22
R7312 22
R7314 22
R7425 120
R7426 120
R7424 120
R7427 120
C7354 50V 100p
C7371 16V 1u
TO DATA DRIVER
CA6
5V
R7407 0
R7406 0
CLOCK BUFFER
IC7301
C0JBAZ001604
C7301 16V 1u
C7302 6.3V 10u
R7410 47
R7411 47
R7412 47
R7413 47
R7307 0
R7417 0
R7309 0
AB_LE5
AB_LE6
AB_LE7
AB_LE8
AC_CLKL
AC_PCL
AC_NCLKL
AC_CEL
AB_CLK11
AB_PCL
AB_CLK21
C7303 50V 100p
R7347 22k
R7348 100k
L7307
ELKE103FA
L7308
ELKE103FA
Vda75V
Vda75V
R7308 0
R7306 220k
C7307 100V 0.1u
75V
C22
TO
C1-BOARD
(C12)
TO
SS-BOARD
(SS32)
C32
①
②
③
④
⑤
⑥
⑦
⑧

TH-42PHD6/TH-42PHW6
C2-BOARD (1 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
C2-BOARD (1 of 2)
Schematic Diagram


1
2
3
4
5
6
7
8
C7313
0.1u
100V
R7368
0
75V
R7317
22
R7315
22
R7316
22
R7318
22
75V
AB_LE7
AB_PCL
AB_CLK21
AB_CLK11
R7398
22
R7399
22
TO DATA DRIVER
CA7
R7428
22
R7400
22
C7355
50V
100p
AB_PCL
5V
C7372
16V
1u
C7319
0.1u
100V
R7369
0
75V
R7337
22
R7334
22
R7336
22
R7420
22
67V
AB_LE8
R7402
0
R7403
0
TO DATA DRIVER
CA8
R7305
1k
R7401
0
R7404
0
C7356
50V
100p
5V
C7373
16V
1u

C2-BOARD TNPA2900 (2/2)

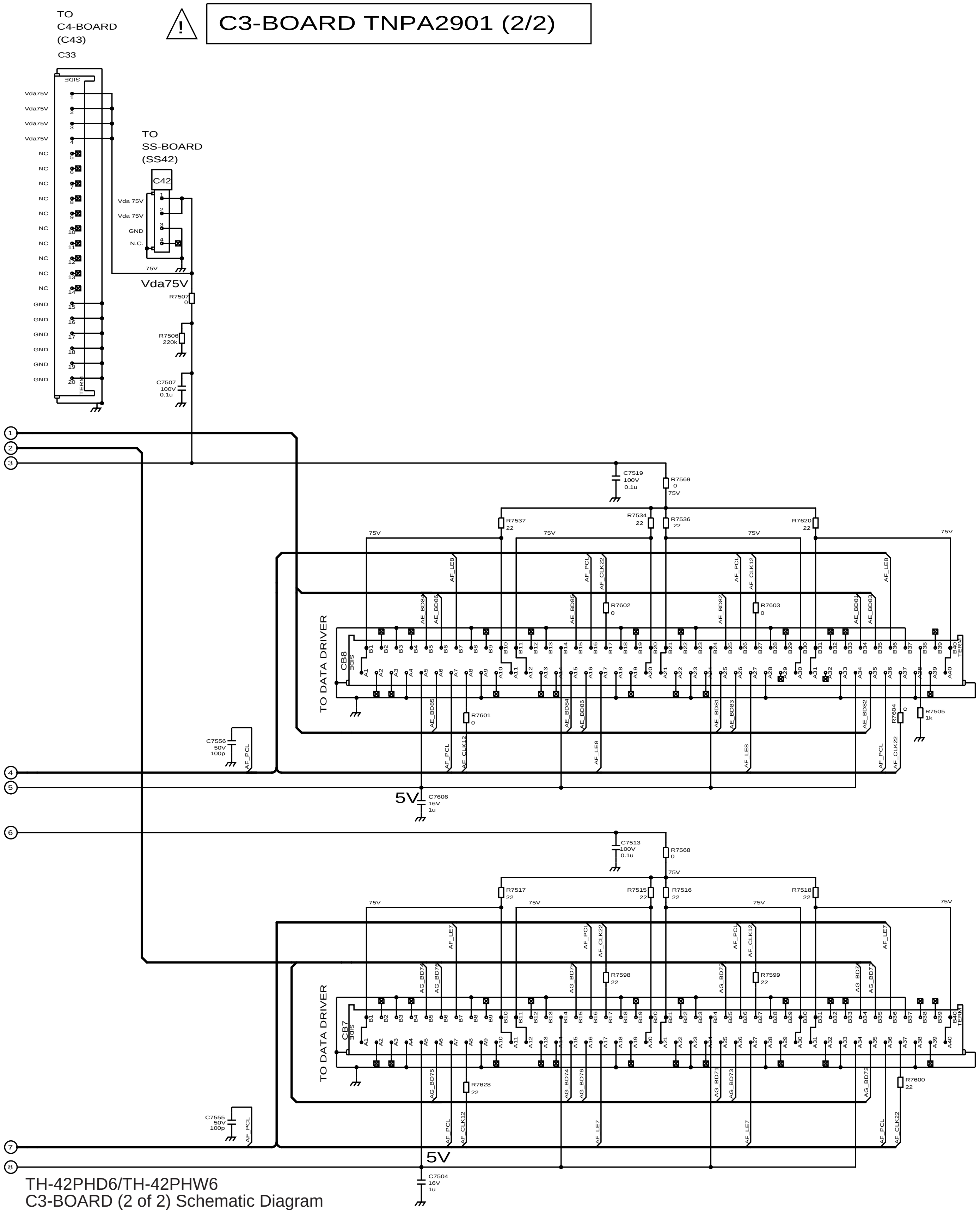

TO D-BOARD (D33)
C31
STB5V
L7508 ELKE103FA
L7507 ELKE103FA
Q7561 2SB0709A0L
Q7562 2SB0709A0L
D7501 MA3X152K0L
D7502 MA3X152K0L
D7503 MA3X152K0L
D7504 MA3X152K0L
C44
V34
V1-BOARD TXNV110QJS
IC1550 B3L000000020
D1552 MA8056MTX
D1553 MA8056MTX
D1550 LNJ107W5PRW
D1551 MA8056MTX
Q1540 2SD0601A0L
RM001 PNA4601M05TV
S1550 EVQPBD05R
S1551 EVQPBD05R
S1552 EVQPBD05R
S1553 EVQPBD05R
S1554 EVQPBD05R
STB5V
LED_G
LED_R
KEY_SW
CPU_GND
REMOCON
OPT
GND
BUFFER
IC7505 C0JBAZ001604
BUFFER
IC7506 C0JBAZ001604
BUFFER
IC7507 C0JBAZ001604
IC7501 C0JBAZ001604
CLOCK BUFFER
TO DATA DRIVER
CB6
TO DATA DRIVER
CB5
5V
5V
75V
A
B
C
D
E
1
2
3
4
5
6
7
8

C3-BOARD TNPA2901 (1/2)

TH-42PHD6/TH-42PHW6
C3-BOARD (1 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
C3-BOARD (1 of 2) Schematic Diagram

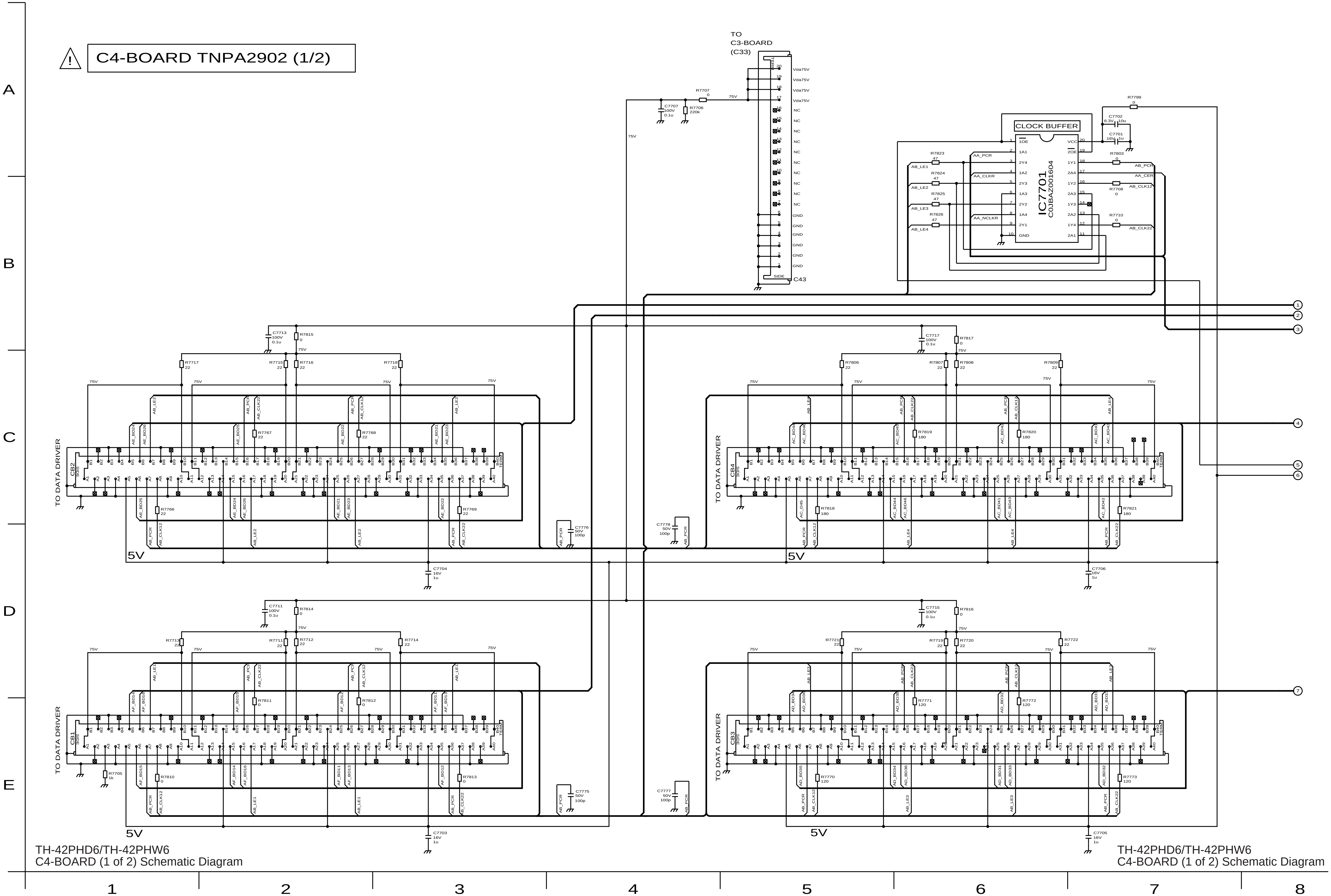
C3-BOARD TNPA2901 (2/2)


TO
C4-BOARD
(C43)
C33
Vda75V
NC
GND
TO
SS-BOARD
(SS42)
C42
Vda 75V
GND
N.C.
Vda75V
R7507
0
R7506
220k
C7507
100V
0.1u
C7519
100V
0.1u
R7569
0
75V
R7537
22
R7534
22
R7536
22
R7620
22
AF_LE8
AF_PCL
AF_CLK22
AF_CLK12
R7602
0
R7603
0
AE_BD84
AE_BD85
AE_BD86
AE_BD81
AE_BD82
AE_BD83
TO DATA DRIVER
CB8
R7601
0
R7604
0
R7505
1k
C7556
50V
100p
5V
C7606
16V
1u
C7513
100V
0.1u
R7568
0
R7517
22
R7515
22
R7516
22
R7518
22
AF_LE7
R7598
22
R7599
22
AG_BD71
AG_BD72
AG_BD73
AG_BD74
AG_BD75
AG_BD76
CB7
R7628
22
R7600
22
C7555
50V
100p
C7504
16V
1u
1
2
3
4
5
6
7
8

TH-42PHD6/TH-42PHW6
C3-BOARD (2 of 2) Schematic Diagram

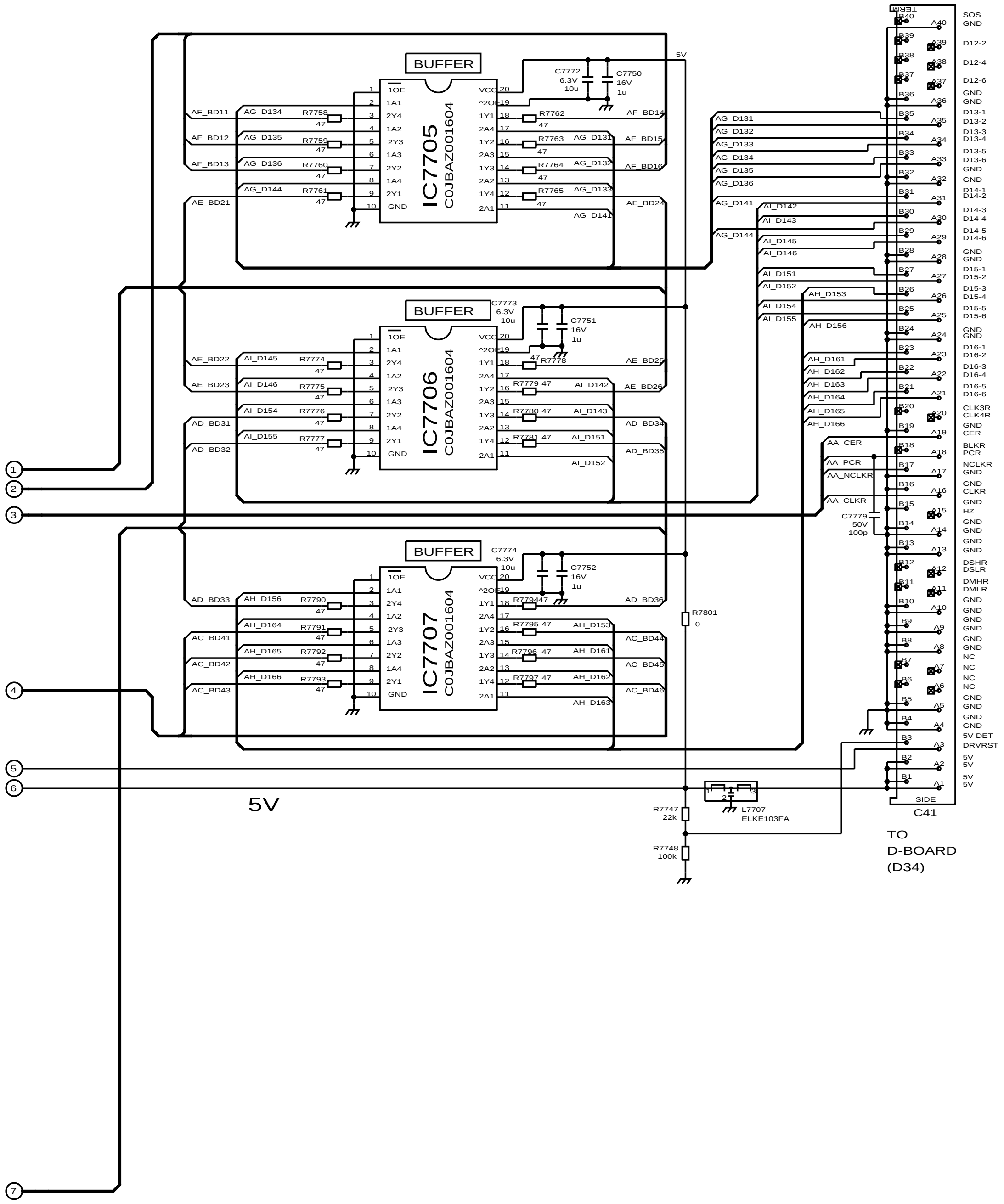
TH-42PHD6/TH-42PHW6
C3-BOARD (2 of 2) Schematic Diagram

⚠ C4-BOARD TNPA2902 (1/2)



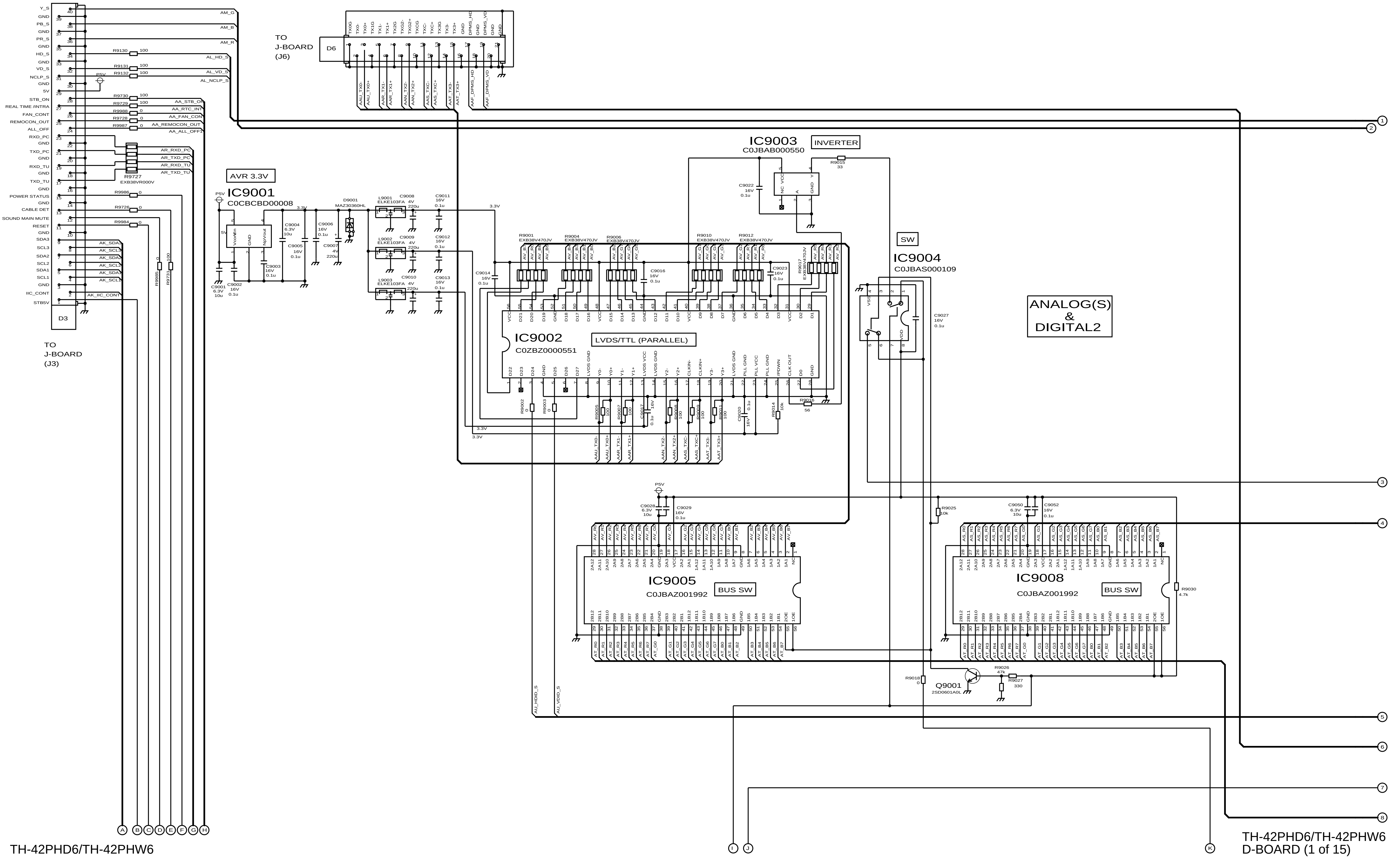
A
B
C
D
E
1
2
3
4
5
6
7
8
TO C3-BOARD (C33)
C43
Vda75V
NC
GND
SIDE
R7707 0
C7707 100V 0.1u
R7706 220k
75V
CLOCK BUFFER
IC7701
C0JBAZ001604
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
R7799 0
C7702 6.3V 10u
C7701 16V 1u
R7823 47
R7824 47
R7825 47
R7826 47
R7803 0
R7708 0
R7710 0
AA_PCR
AA_CLKR
AA_NCLKR
AA_CER
AB_LE1
AB_LE2
AB_LE3
AB_LE4
AB_PCR
AB_CLK12
AB_CLK22
CB1
CB2
CB3
CB4
TO DATA DRIVER
5V
C7703 16V 1u
C7704 16V 1u
C7705 16V 1u
C7706 16V 1u
C7711 100V 0.1u
C7713 100V 0.1u
C7715 100V 0.1u
C7717 100V 0.1u
C7775 50V 100p
C7776 50V 100p
C7777 50V 100p
C7778 50V 100p
R7705 1k
R7814 0
R7815 0
R7816 0
R7817 0
①
②
③
④
⑤
⑥
⑦

TH-42PHD6/TH-42PHW6
C4-BOARD (1 of 2) Schematic Diagram


BUFFER
IC7705
C0JBAZ001604
BUFFER
IC7706
C0JBAZ001604
BUFFER
IC7707
C0JBAZ001604
C7772
6.3V
10u
C7750
16V
1u
C7773
6.3V
10u
C7751
16V
1u
C7774
6.3V
10u
C7752
16V
1u
5V
R7801
0
R7747
22k
R7748
100k
L7707
ELKE103FA
C7779
50V
100p
C41
SIDE
TO
D-BOARD
(D34)
5V
1
2
3
4
5
6
7

C4-BOARD TNPA2902 (2/2)

D-BOARD TZTNP01QJSU (1/15)


A
B
C
D
E
1
2
3
4
5
6
7
8
TO
J-BOARD
(J3)
D3
TO
J-BOARD
(J6)
D6
Y_S
GND
PB_S
PR_S
HD_S
VD_S
NCLP_S
5V
STB_ON
REAL TIME /INTRA
FAN_CONT
REMOCON_OUT
ALL_OFF
RXD_PC
TXD_PC
RXD_TU
TXD_TU
POWER STATUS
CABLE DET
SOUND MAIN MUTE
RESET
SDA3
SCL3
SDA2
SCL2
SDA1
SCL1
IIC_CONT
STB5V
AM_G
AM_B
AM_R
AL_HD_S
AL_VD_S
AL_NCLP_S
AA_STB_ON
AA_RTC_INT
AA_FAN_CON
AA_REMOCON_OUT
AA_ALL_OFF
AR_RXD_PC
AR_TXD_PC
AR_RXD_TU
AR_TXD_TU
R9727
EXB38V R000V
AK_SDA3
AK_SCL3
AK_SDA2
AK_SCL2
AK_SDA1
AK_SCL1
AK_IIC_CONT
AVR 3.3V
IC9001
C0CBCBD00008
P5V
3.3V
D9001
MAZ30360HL
L9001
L9002
L9003
ELKE103FA
IC9002
C0ZBZ0000551
LVDS/TTL (PARALLEL)
IC9003
C0JBAB000550
INVERTER
IC9004
C0JBAS000109
SW
ANALOG(S)
&
DIGITAL2
IC9005
C0JBAZ001992
BUS SW
IC9008
C0JBAZ001992
BUS SW
Q9001
2SD0601A0L
AU_HDID_S
AU_VDID_S
AAU_TX0-
AAU_TX0+
AAR_TX1-
AAR_TX1+
AAN_TX2-
AAN_TX2+
AAS_TXC-
AAS_TXC+
AAT_TX3-
AAT_TX3+
AAF_DPMS_HD
AAF_DPMS_VD
①
②
③
④
⑤
⑥
⑦
⑧
Ⓐ
Ⓑ
Ⓒ
Ⓓ
Ⓔ
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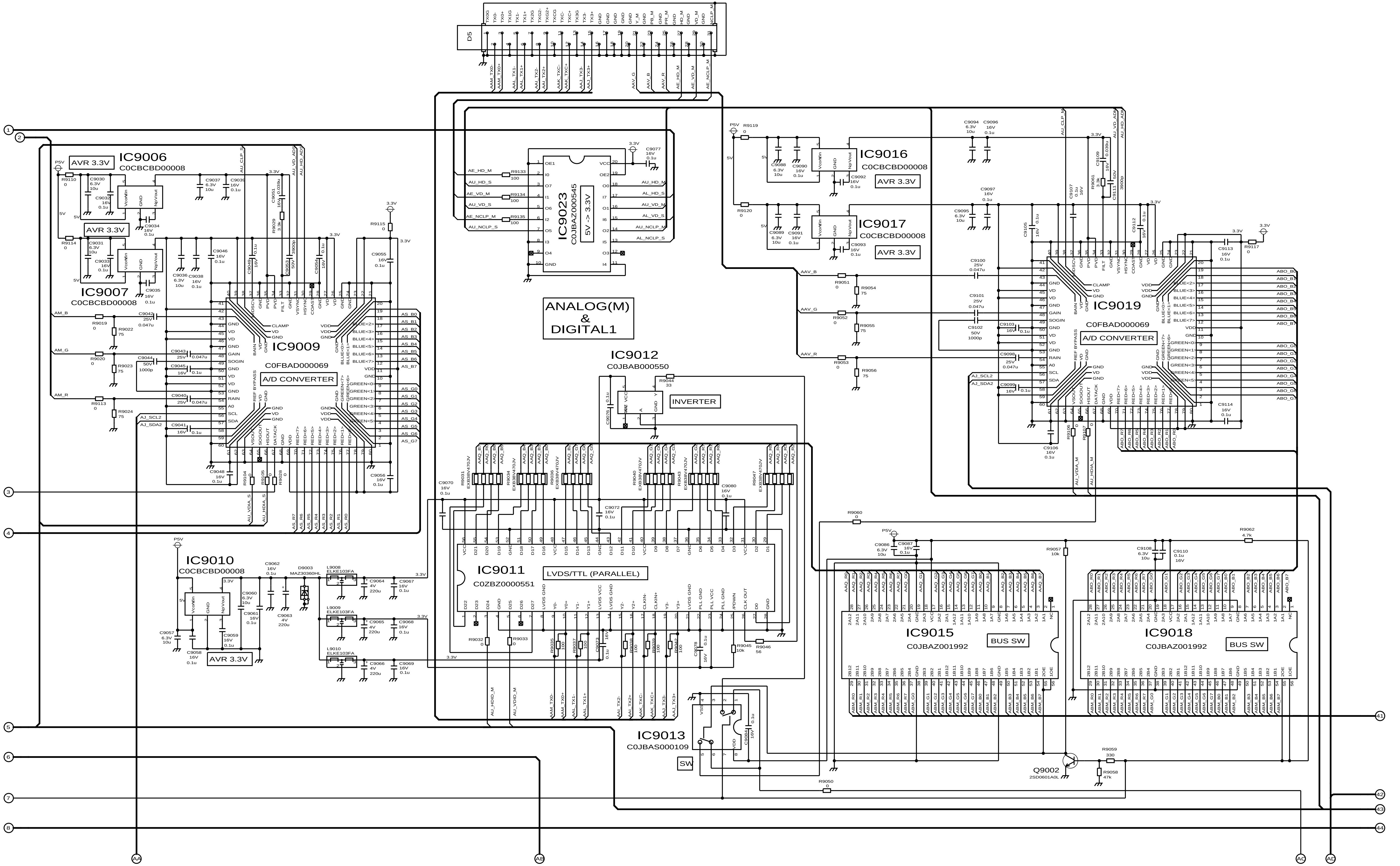
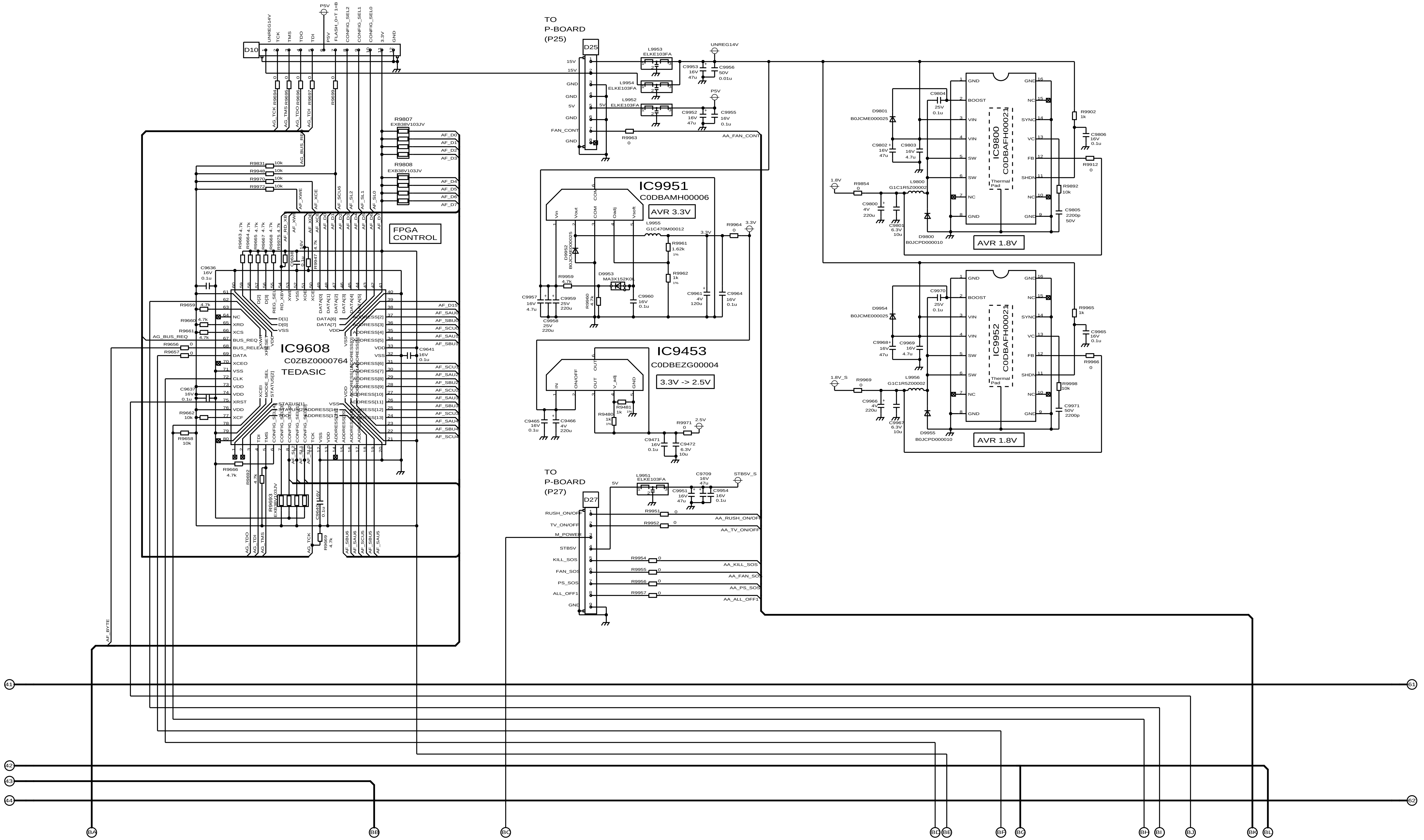
TH-42PHD6/TH-42PHW6
D-BOARD (1 of 15) Schematic Diagram

TH-42PHD6/TH-42PHW6
D-BOARD (1 of 15)
Schematic Diagram

D-BOARD TZTNP01QJSU (2/15)

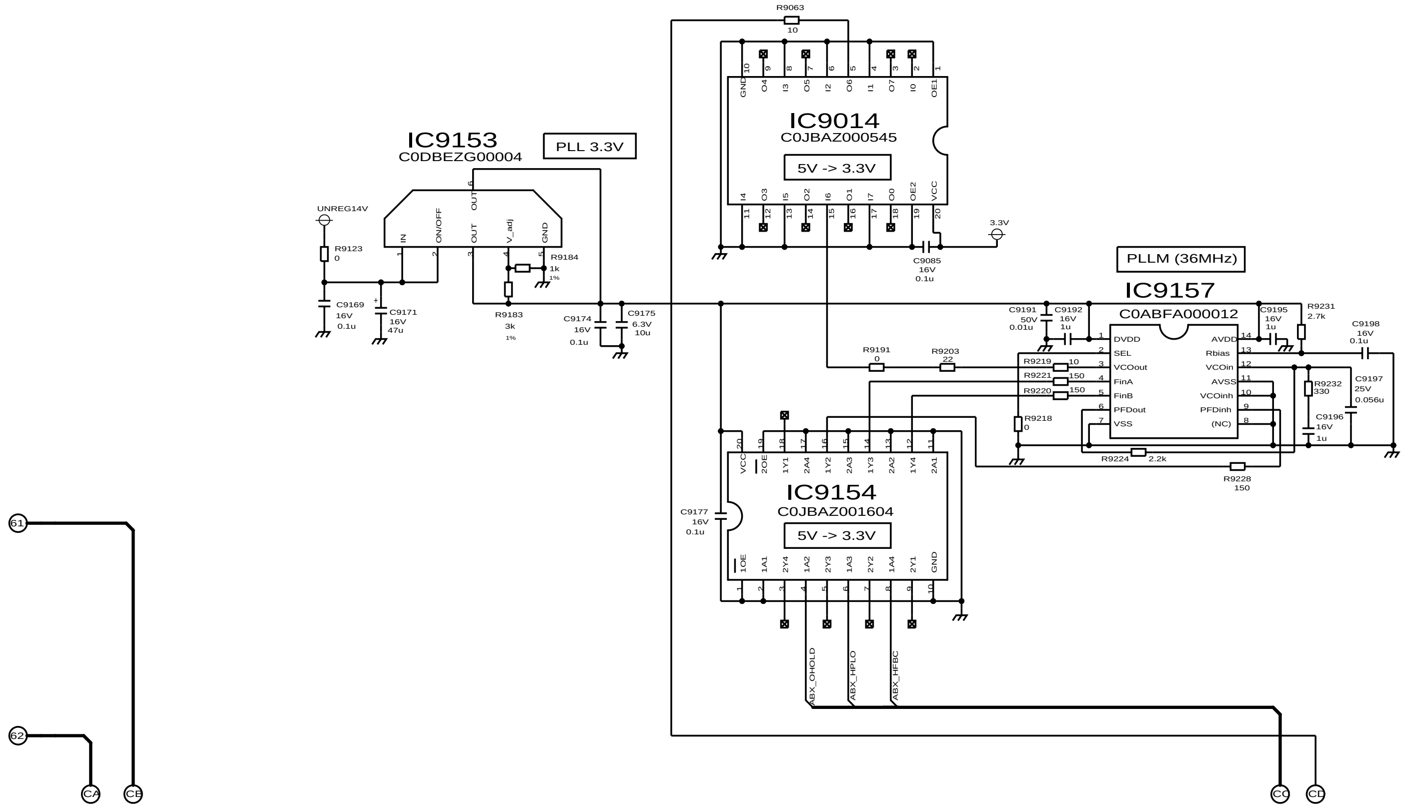

D5
IC9006
C0CBCBD00008
AVR 3.3V
IC9007
C0CBCBD00008
AVR 3.3V
IC9009
C0FBAD000069
A/D CONVERTER
IC9023
C0JBAZ000545
5V -> 3.3V
ANALOG(M)
&
DIGITAL1
IC9012
C0JBAB000550
INVERTER
IC9016
C0CBCBD00008
AVR 3.3V
IC9017
C0CBCBD00008
AVR 3.3V
IC9019
C0FBAD000069
A/D CONVERTER
IC9010
C0CBCBD00008
AVR 3.3V
D9003
MAZ30360HL
L9008
ELKE103FA
L9009
ELKE103FA
L9010
ELKE103FA
IC9011
C0ZBZ0000551
LVDS/TTL (PARALLEL)
IC9013
C0JBAS000109
SW
IC9015
C0JBAZ001992
BUS SW
IC9018
C0JBAZ001992
BUS SW
Q9002
2SD0601A0L
P5V
3.3V
AM_B
AM_G
AM_R
AAV_B
AAV_G
AAV_R
AJ_SCL2
AJ_SDA2
AU_VDIA_S
AU_HDIA_S
AU_HDID_M
AU_VDID_M
AU_VDIA_M
AU_HDIA_M
1
2
3
4
5
6
7
8
41
42
43
44
AA
AB
AC
AD

D-BOARD TZTNP01QJSU (3/15)

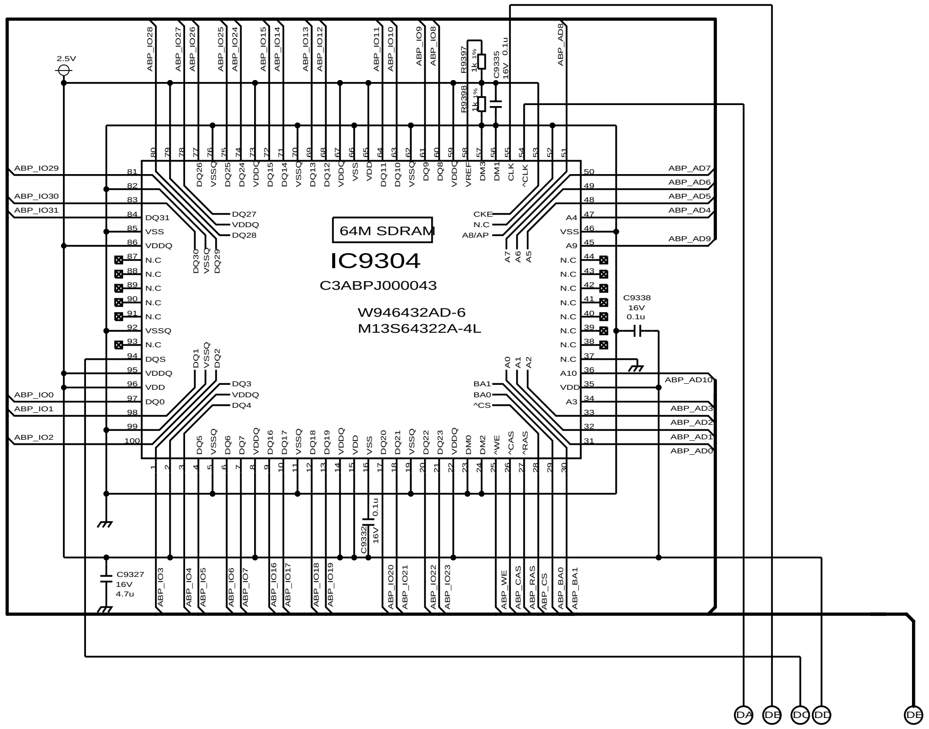


D10
D25
TO
P-BOARD
(P25)
D27
TO
P-BOARD
(P27)
IC9608
C0ZBZ0000764
TEDASIC
FPGA
CONTROL
IC9951
C0DBAMH00006
AVR 3.3V
IC9453
C0DBEZG00004
3.3V -> 2.5V
IC9800
C0DBAFH00021
AVR 1.8V
IC9952
C0DBAFH00021
AVR 1.8V
UNREG14V
P5V
STB5V_S
3.3V
2.5V
1.8V
1.8V_S
AF_BYTE
AA_FAN_CONT
AA_RUSH_ON/OFF
AA_TV_ON/OFF
AA_KILL_SOS
AA_FAN_SOS
AA_PS_SOS
AA_ALL_OFF1
41
42
43
44
61
62
BA
BB
BC
BD
BE
BF
BG
BH
BI
BJ
BK
BL

⚠ D-BOARD TZTNP01QJSU (4/15)

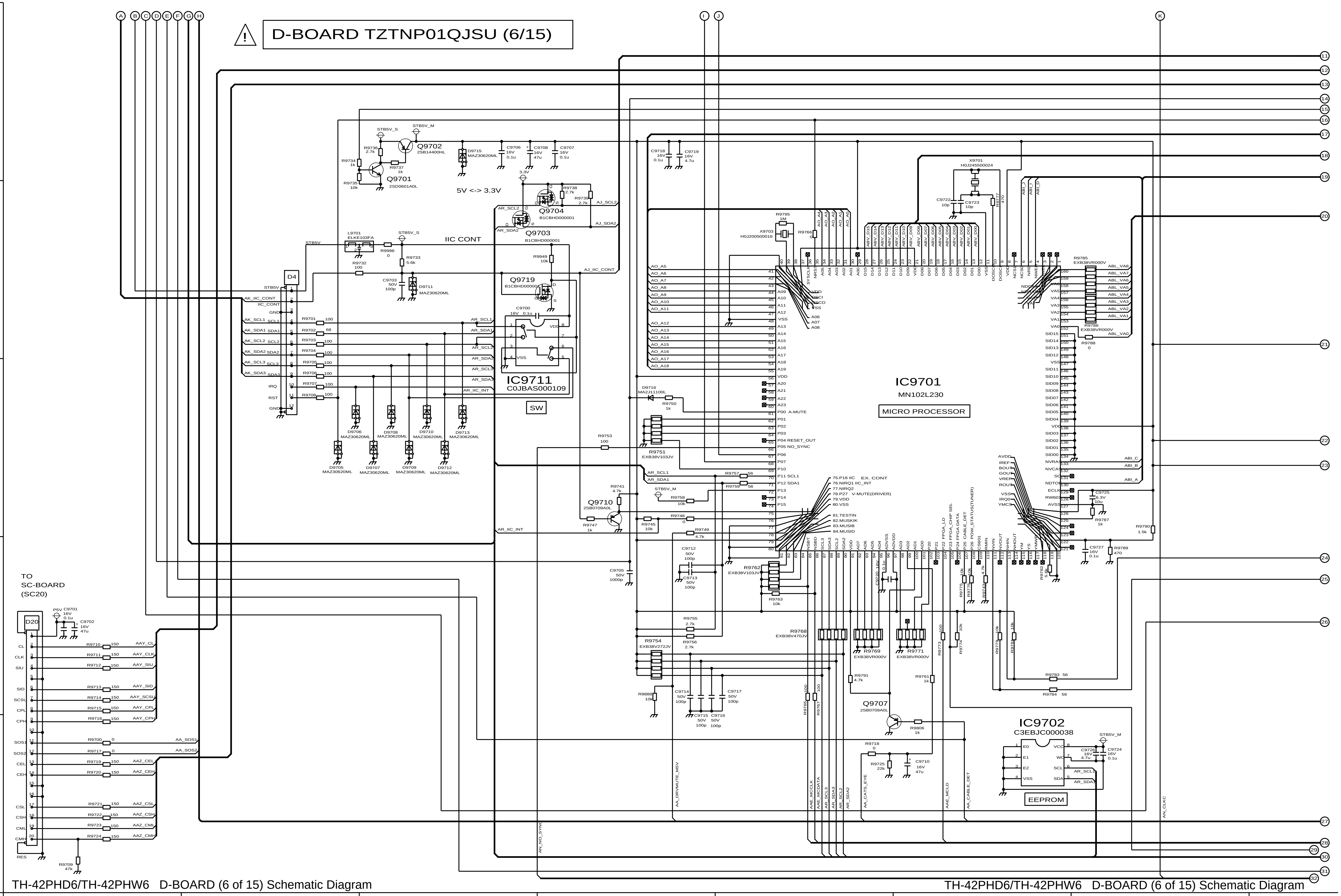

IC9153
C0DBEZG00004
PLL 3.3V
UNREG14V
R9123
0
C9169
16V
0.1u
C9171
16V
47u
IN
ON/OFF
OUT
OUT
V_adj
GND
R9184
1k
1%
R9183
3k
1%
C9174
16V
0.1u
C9175
6.3V
10u
R9063
10
IC9014
C0JBAZ000545
5V -> 3.3V
GND
O4
I3
O5
I2
O6
I1
O7
I0
OE1
I4
O3
I5
O2
I6
O1
I7
O0
OE2
VCC
3.3V
C9085
16V
0.1u
PLLM (36MHz)
IC9157
C0ABFA000012
C9191
50V
0.01u
C9192
16V
1u
C9195
16V
1u
R9231
2.7k
C9198
16V
0.1u
DVDD
SEL
VCOout
FinA
FinB
PFDout
VSS
AVDD
Rbias
VCOin
AVSS
VCOinh
PFDinh
(NC)
R9191
0
R9203
22
R9219
10
R9221
150
R9220
150
R9218
0
R9232
330
C9197
25V
0.056u
C9196
16V
1u
R9224
2.2k
R9228
150
IC9154
C0JBAZ001604
5V -> 3.3V
C9177
16V
0.1u
VCC
2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
ABX_OHOLD
ABX_HPLO
ABX_HFBC
61
62
CA
CB
CC
CD

⚠ D-BOARD TZTNP01QJSU (5/15)



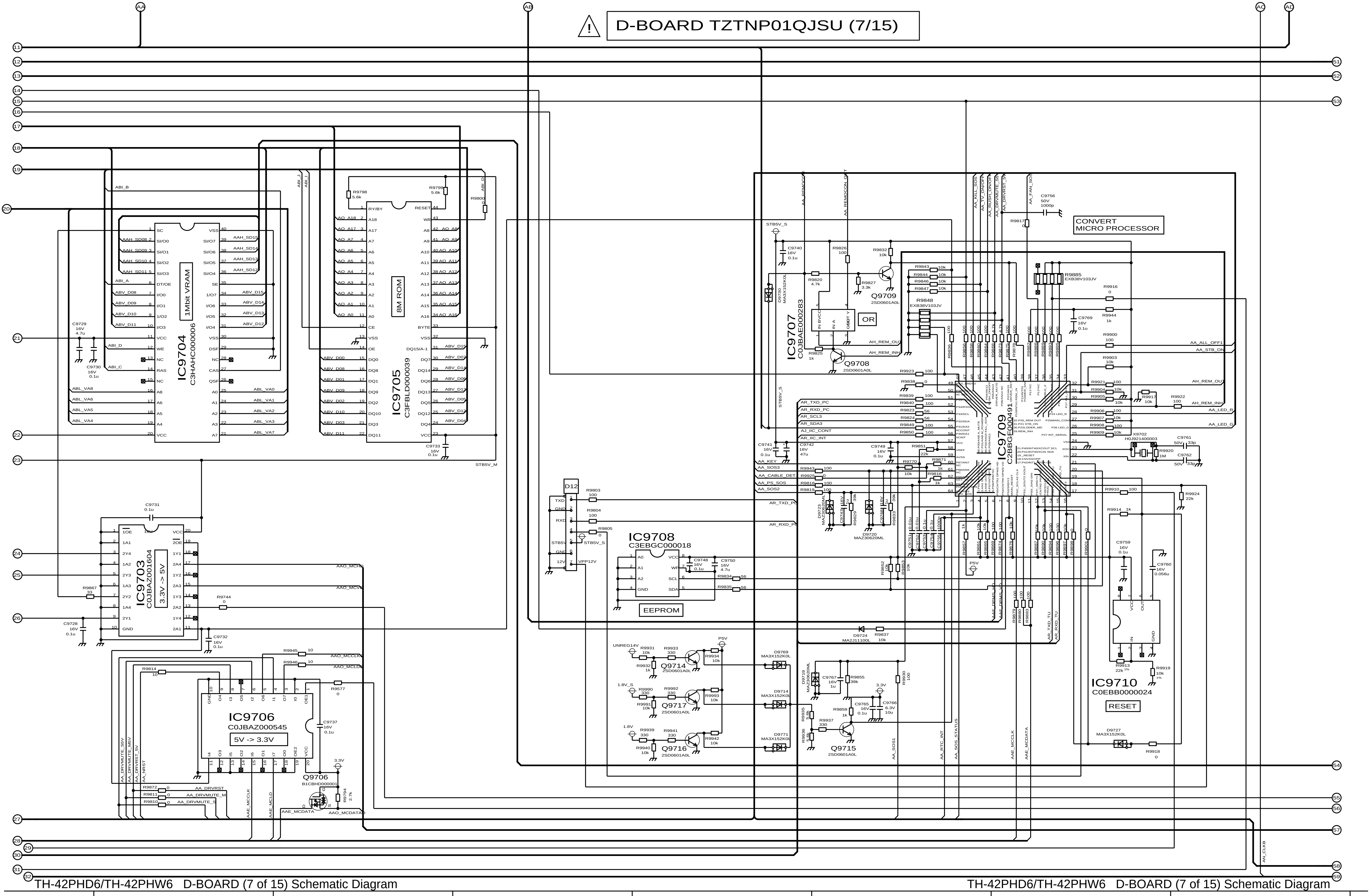
2.5V
64M SDRAM
IC9304
C3ABPJ000043
W946432AD-6
M13S64322A-4L
ABP_IO29
ABP_IO30
ABP_IO31
ABP_IO0
ABP_IO1
ABP_IO2
ABP_IO28
ABP_IO27
ABP_IO26
ABP_IO25
ABP_IO24
ABP_IO15
ABP_IO14
ABP_IO13
ABP_IO12
ABP_IO11
ABP_IO10
ABP_IO9
ABP_IO8
ABP_AD8
ABP_AD7
ABP_AD6
ABP_AD5
ABP_AD4
ABP_AD9
ABP_AD10
ABP_AD3
ABP_AD2
ABP_AD1
ABP_AD0
ABP_IO3
ABP_IO4
ABP_IO5
ABP_IO6
ABP_IO7
ABP_IO16
ABP_IO17
ABP_IO18
ABP_IO19
ABP_IO20
ABP_IO21
ABP_IO22
ABP_IO23
ABP_WE
ABP_CAS
ABP_RAS
ABP_CS
ABP_BA0
ABP_BA1
DQ31
VSS
VDDQ
N.C
VSSQ
DQS
VDD
DQ0
DQ27
VDDQ
DQ28
DQ3
VDDQ
DQ4
CKE
N.C
A8/AP
A4
VSS
A9
A10
VDD
A3
BA1
BA0
^CS
C9338
16V
0.1u
C9327
16V
4.7u
R9307
C9335
16V 0.1u
DA
DB
DC
DD
DE

D-BOARD TZTNP01QJSU (6/15)



A
B
C
D
E
F
G
H
I
J
K
STB5V_S
STB5V_M
Q9702
2SB14400HL
Q9701
2SD0601A0L
R9736 2.7k
R9734 1k
R9735 10k
R9737 1k
D9715 MAZ30620ML
C9706 16V 0.1u
C9708 16V 47u
C9707 16V 0.1u
5V <-> 3.3V
3.3V
Q9704
B1CBHD000001
Q9703
B1CBHD000001
R9738 2.7k
R9739 2.7k
AR_SCL2
AR_SDA2
AJ_SCL2
AJ_SDA2
IIC CONT
L9701 ELKE103FA
STB5V
R9996 0
R9732 100
R9733 5.6k
C9703 50V 100p
D9711 MAZ30620ML
R9949 10k
AJ_IIC_CONT
Q9719
B1CBHD000001
C9700 16V 0.1u
D4
AK_IIC_CONT
IIC_CONT
GND
AK_SCL1
SCL1
AK_SDA1
SDA1
AK_SCL2
SCL2
AK_SDA2
SDA2
AK_SCL3
SCL3
AK_SDA3
SDA3
IRQ
RST
R9701 100
R9702 68
R9703 100
R9704 100
R9705 100
R9706 100
R9707 100
R9708 100
AR_SCL1
AR_SDA1
AR_SCL3
AR_SDA3
AR_IIC_INT
VDD
VSS
IC9711
C0JBAS000109
SW
D9706 MAZ30620ML
D9708 MAZ30620ML
D9710 MAZ30620ML
D9713 MAZ30620ML
D9705 MAZ30620ML
D9707 MAZ30620ML
D9709 MAZ30620ML
D9712 MAZ30620ML
C9718 16V 0.1u
C9719 16V 4.7u
X9701 H0J245500024
C9722 10p
C9723 10p
R9777 470
R9795 1M
X9703 H0J200500016
R9766 0
AO_A5
AO_A6
AO_A7
AO_A8
AO_A9
AO_A10
AO_A11
AO_A12
AO_A13
AO_A14
AO_A15
AO_A16
AO_A17
AO_A18
ABV_D15
ABV_D14
ABV_D13
ABV_D12
ABV_D11
ABV_D10
ABV_D09
ABV_D08
ABV_D07
ABV_D06
ABV_D05
ABV_D04
ABV_D03
ABV_D02
ABV_D01
ABV_D00
ABI_J
ABI_I
ABI_D
R9785 EXB38VR000V
R9786 EXB38VR000V
ABL_VA8
ABL_VA7
ABL_VA6
ABL_VA5
ABL_VA4
ABL_VA3
ABL_VA2
ABL_VA1
ABL_VA0
R9788 0
IC9701
MN102L230
MICRO PROCESSOR
D9716 MA2J11100L
R9750 1k
A-MUTE
RESET_OUT
NO_SYNC
R9753 100
R9751 EXB38V103JV
AR_SCL1
AR_SDA1
R9757 56
R9759 56
75.P16 IIC EX. CONT
76.NIRQ1 IIC_INT
77.NIRQ2
78.P27 V-MUTE(DRIVER)
79.VDD
80.VSS
81.TESTIN
82.MUSKIK
83.MUSIB
84.MUSID
STB5V_M
R9758 10k
R9741 4.7k
Q9710
2SB0709A0L
R9747 1k
R9745 10k
R9748 0
R9749 4.7k
AR_IIC_INT
C9705 50V 1000p
C9712 50V 100p
C9713 50V 100p
R9762 EXB38V103JV
R9763 10k
C9720 16V 0.1u
ABI_C
ABI_B
ABI_A
C9725 6.3V 10u
R9787 1k
R9790 1.5k
C9727 16V 0.1u
R9789 470
R9782 5.6k
FPGA_LD
FPGA_CHIP SEL
FPGA DATA
CABLE_DET
POW_STATUS(TUNER)
R9775 10k
R9776 10k
R9743 4.7k
R9755 2.7k
R9754 EXB38V272JV
R9756 2.7k
R9768 EXB38V470JV
R9769 EXB38VR000V
R9771 EXB38VR000V
R9773 100
R9774 10k
R9779 10k
R9780 10k
R9783 56
R9784 56
R9791 4.7k
R9761 1k
R9888 10k
C9714 50V 100p
C9715 50V 100p
C9716 50V 100p
C9717 50V 100p
R9765 100
R9767 100
Q9707
2SB0709A0L
R9806 1k
R9718 0
R9725 22k
C9710 16V 47u
IC9702
C3EBJC000038
STB5V_M
C9726 16V 4.7u
C9724 16V 0.1u
E0
E1
E2
VSS
VCC
WC
SCL
SDA
AR_SCL1
AR_SDA1
EEPROM
AA_DRVMUTE_M5V
AAE_MCCLK
AAE_MCDATA
AR_SCL3
AR_SDA3
AR_SCL2
AR_SDA2
AA_CATS_EYE
AAE_MCLD
AA_CABLE_DET
AN_CLKC
AN_NO_SYNC
TO
SC-BOARD
(SC20)
D20
P5V
C9701 16V 0.1u
C9702 16V 47u
CL
CLK
SIU
SID
SCSU
CPL
CPH
SOS1
SOS2
CEL
CEH
CSL
CSH
CML
CMH
RES
R9710 150
R9711 150
R9712 150
R9713 150
R9714 150
R9715 150
R9716 150
R9700 0
R9717 0
R9719 150
R9720 150
R9721 150
R9722 150
R9723 150
R9724 150
R9709 47k
AAY_CL
AAY_CLK
AAY_SIU
AAY_SID
AAY_SCSU
AAY_CPL
AAY_CPH
AA_SOS1
AA_SOS2
AAZ_CEL
AAZ_CEH
AAZ_CSL
AAZ_CSH
AAZ_CML
AAZ_CMH
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
F
G
H
I
J
1
2
3
4
5
6
7
8

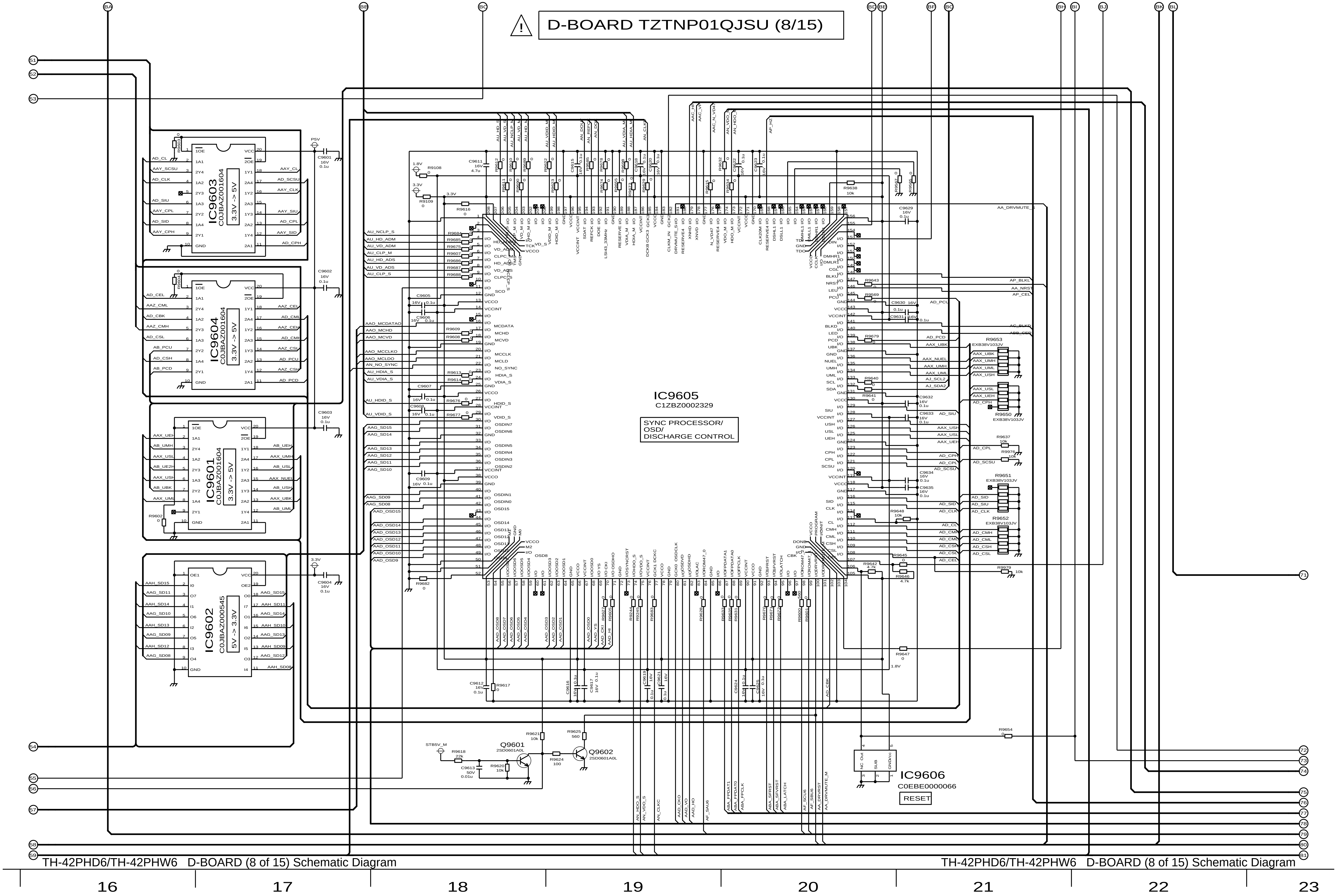
D-BOARD TZTNP01QJSU (7/15)

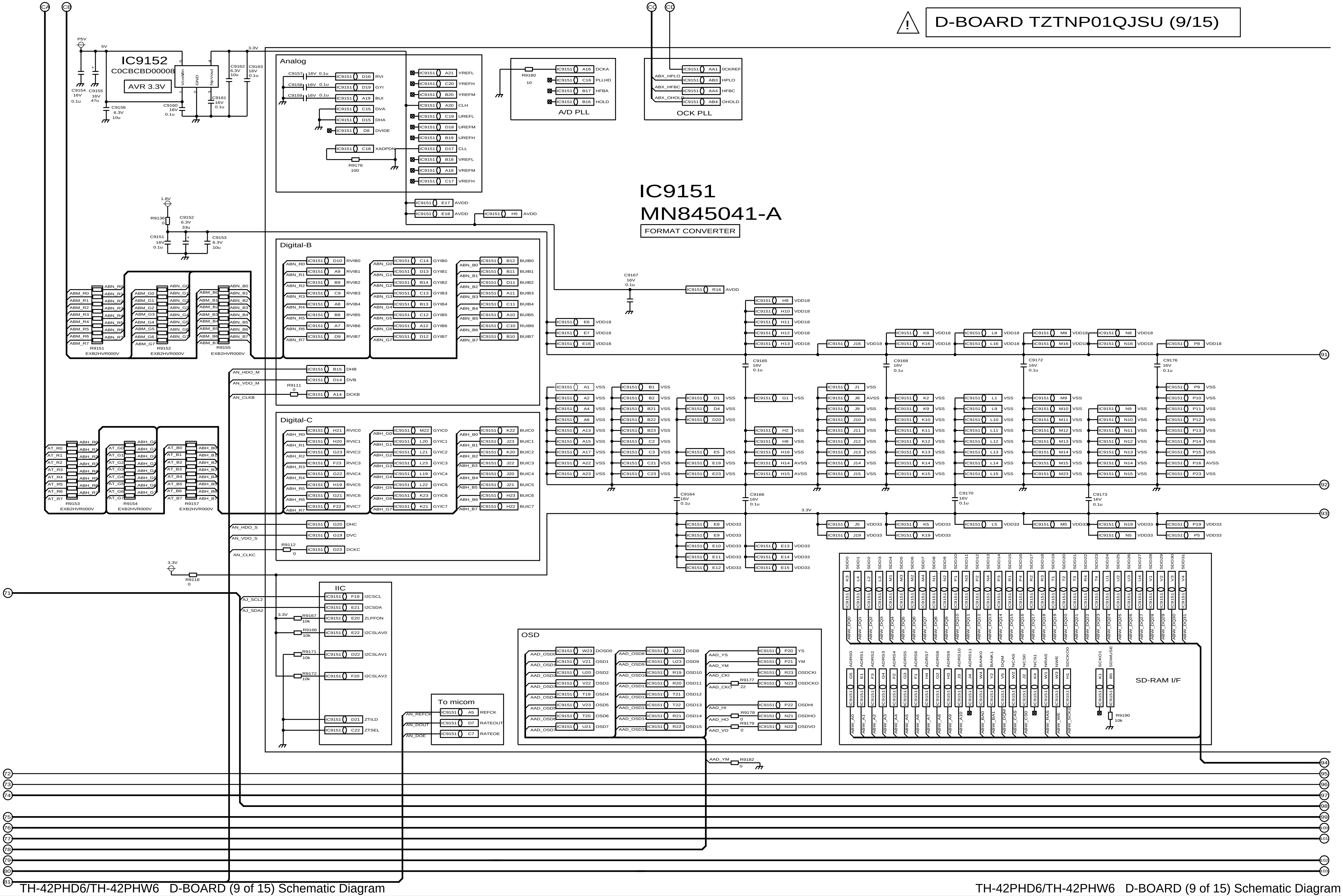


IC9704
C3HAHC000006
1Mbit VRAM
IC9705
C3FBLD000039
8M ROM
IC9703
C0JBAZ001604
3.3V -> 5V
IC9706
C0JBAZ000545
5V -> 3.3V
Q9706
B1CBHD000001
IC9707
C0JBAE000283
OR
Q9709
2SD0601A0L
Q9708
2SD0601A0L
IC9708
C3EBGC000018
EEPROM
IC9709
C2BGF000491
CONVERT
MICRO PROCESSOR
IC9710
C0EBB0000024
RESET
Q9714
2SD0601A0L
Q9717
2SD0601A0L
Q9716
2SD0601A0L
Q9715
2SD0601A0L
D12
X9702
H0J921400003
STB5V_S
STB5V_M
P5V
3.3V
UNREG14V
1.8V_S
1.8V
AA
AB
AC
AD

TH-42PHD6/TH-42PHW6 D-BOARD (7 of 15) Schematic Diagram

D-BOARD TZTNP01QJSU (8/15)


IC9603
C0JBAZ001604
3.3V -> 5V
IC9604
C0JBAZ001604
3.3V -> 5V
IC9601
C0JBAZ001604
3.3V -> 5V
IC9602
C0JBAZ000545
5V -> 3.3V
IC9605
C1ZBZ0002329
SYNC PROCESSOR/
OSD/
DISCHARGE CONTROL
IC9606
C0EBE0000066
RESET
Q9601
2SD0601A0L
Q9602
2SD0601A0L
R9653
EXB38V103JV
R9650
EXB38V103JV
R9651
EXB38V103JV
R9652
EXB38V103JV
STB5V_M
P5V
3.3V
1.8V
16
17
18
19
20
21
22
23


D-BOARD TZTNP01QJSU (9/15)
IC9152
C0CBCBD00008
AVR 3.3V
P5V
5V
3.3V
1.8V
Analog
A/D PLL
OCK PLL
IC9151
MN845041-A
FORMAT CONVERTER
Digital-B
Digital-C
IIC
To micom
OSD
SD-RAM I/F
R9151
R9152
R9155
R9153
R9154
R9157
EXB2HVR000V
R9176
R9180
R9136
R9111
R9112
R9118
R9167
R9168
R9171
R9172
R9177
R9178
R9179
R9182
R9190
C9151
C9152
C9153
C9154
C9155
C9156
C9157
C9158
C9159
C9160
C9161
C9162
C9163
C9164
C9165
C9166
C9167
C9168
C9170
C9172
C9173
C9176
CA
CB
CC
CD
71
72
73
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100
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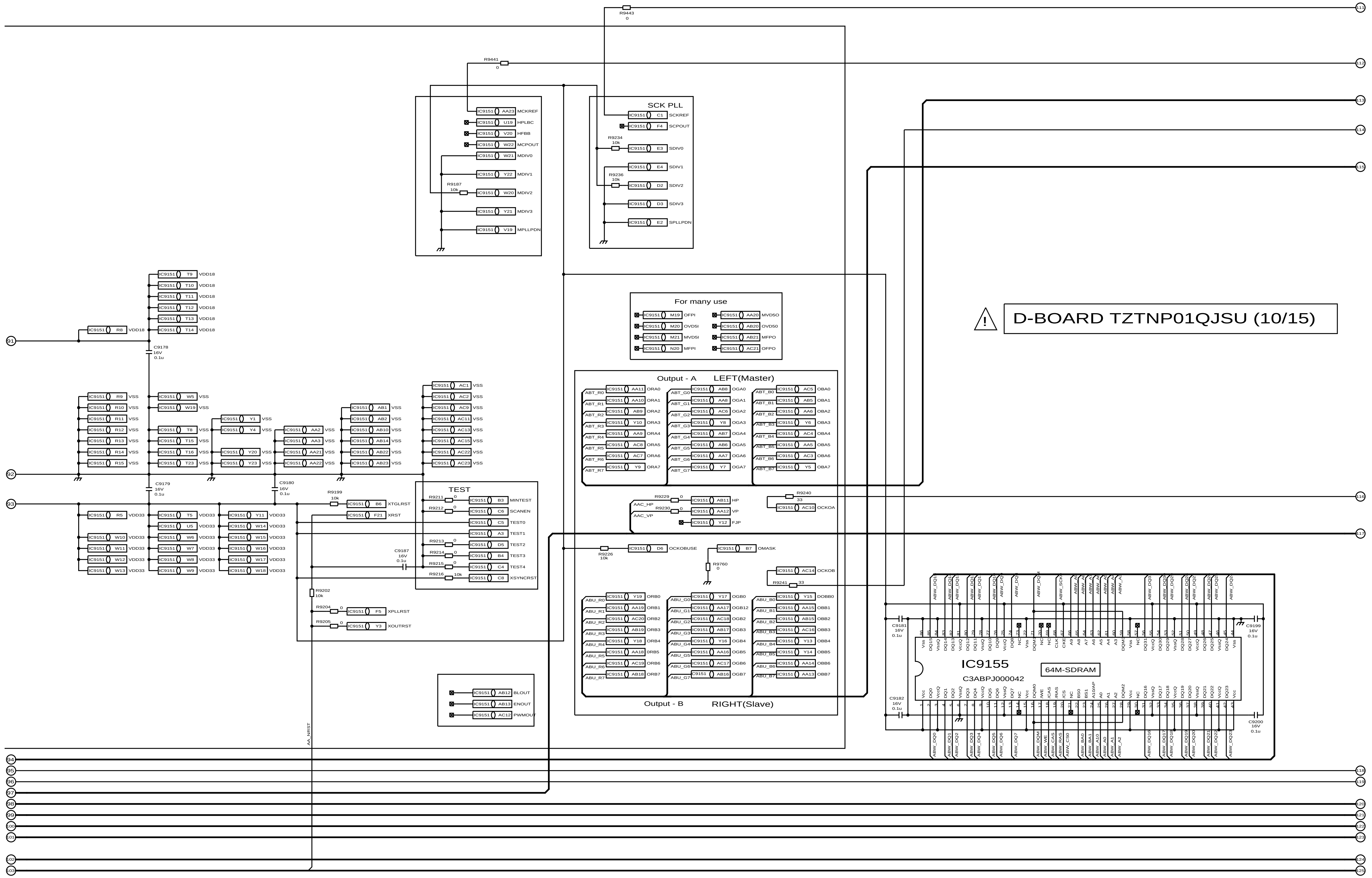
102
103



SCK PLL
For many use
TEST
Output - A
LEFT(Master)
Output - B
RIGHT(Slave)
IC9155
C3ABPJ000042
64M-SDRAM
IC9151
R9443 0
R9441 0
R9234 10k
R9236 10k
R9187 10k
R9199 10k
R9202 10k
R9204 0
R9205 0
R9211 0
R9212 0
R9213 0
R9214 0
R9215 0
R9216 10k
R9226 10k
R9229 0
R9230 0
R9240 33
R9241 33
R9760 0
C9178 16V 0.1u
C9179 16V 0.1u
C9180 16V 0.1u
C9187 16V 0.1u
C9181 16V 0.1u
C9182 16V 0.1u
C9199 16V 0.1u
C9200 16V 0.1u
MCKREF
HPLBC
HFBB
MCPOUT
MDIV0
MDIV1
MDIV2
MDIV3
MPLLPDN
SCKREF
SCPOUT
SDIV0
SDIV1
SDIV2
SDIV3
SPLLPDN
OFPI
OVD5I
MVD5I
MFPI
MVD5O
OVD5O
MFPO
OFPO
VDD18
VDD33
VSS
XTGLRST
XRST
MINTEST
SCANEN
TEST0
TEST1
TEST2
TEST3
TEST4
XSYNCRST
XPLLRST
XOUTRST
AA_NRST
AAC_HP
AAC_VP
HP
VP
FJP
OCKOA
OCKOBUSE
OMASK
OCKOB
BLOUT
ENOUT
PWMOUT
ORA0
ORA1
ORA2
ORA3
ORA4
ORA5
ORA6
ORA7
OGA0
OGA1
OGA2
OGA3
OGA4
OGA5
OGA6
OGA7
OBA0
OBA1
OBA2
OBA3
OBA4
OBA5
OBA6
OBA7
ORB0
ORB1
ORB2
ORB3
ORB4
ORB5
ORB6
ORB7
OGB0
OGB12
OGB2
OGB3
OGB4
OGB5
OGB6
OGB7
DOBB0
OBB1
OBB2
OBB3
OBB4
OBB5
OBB6
OBB7
91
92
93
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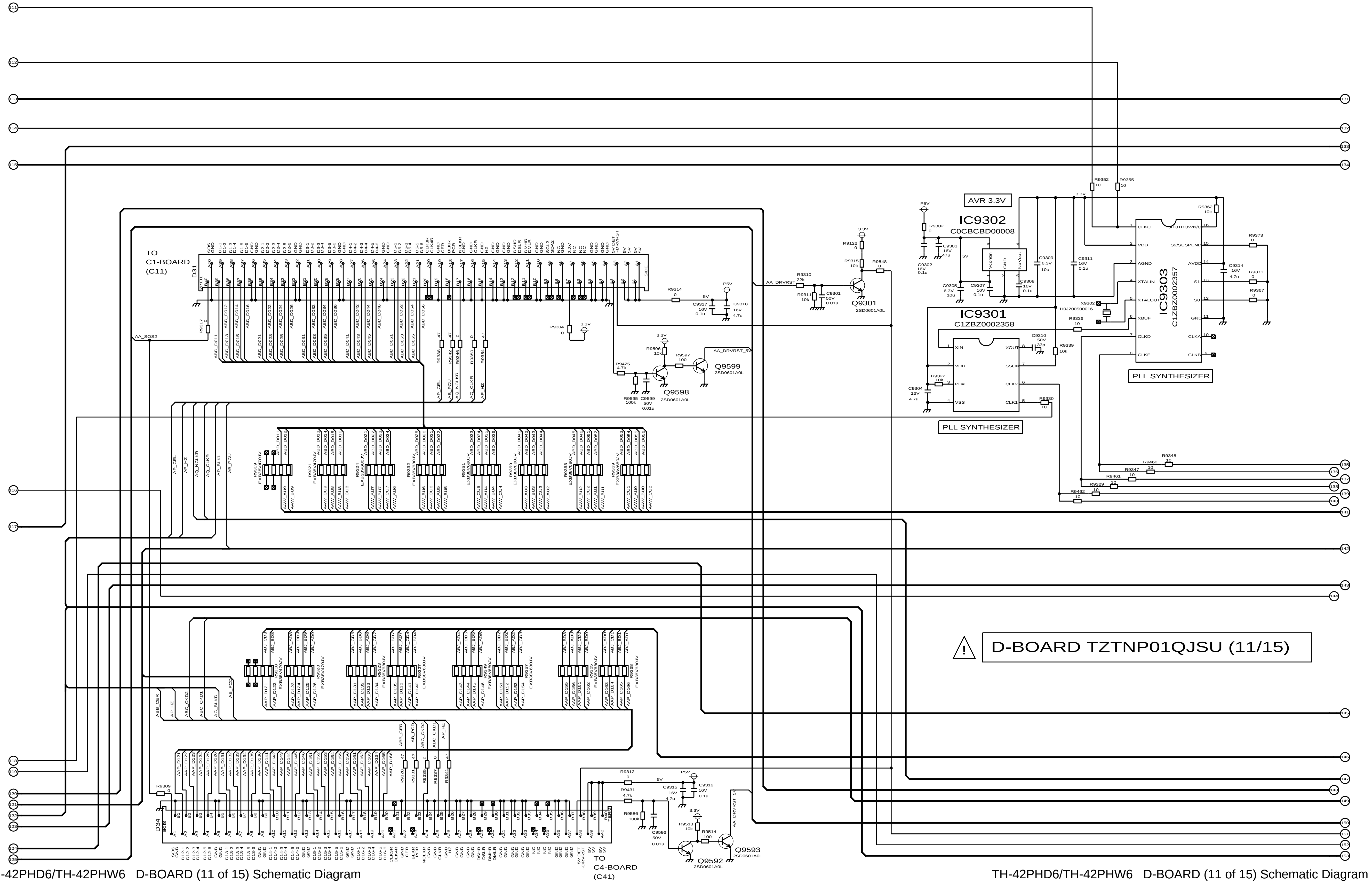
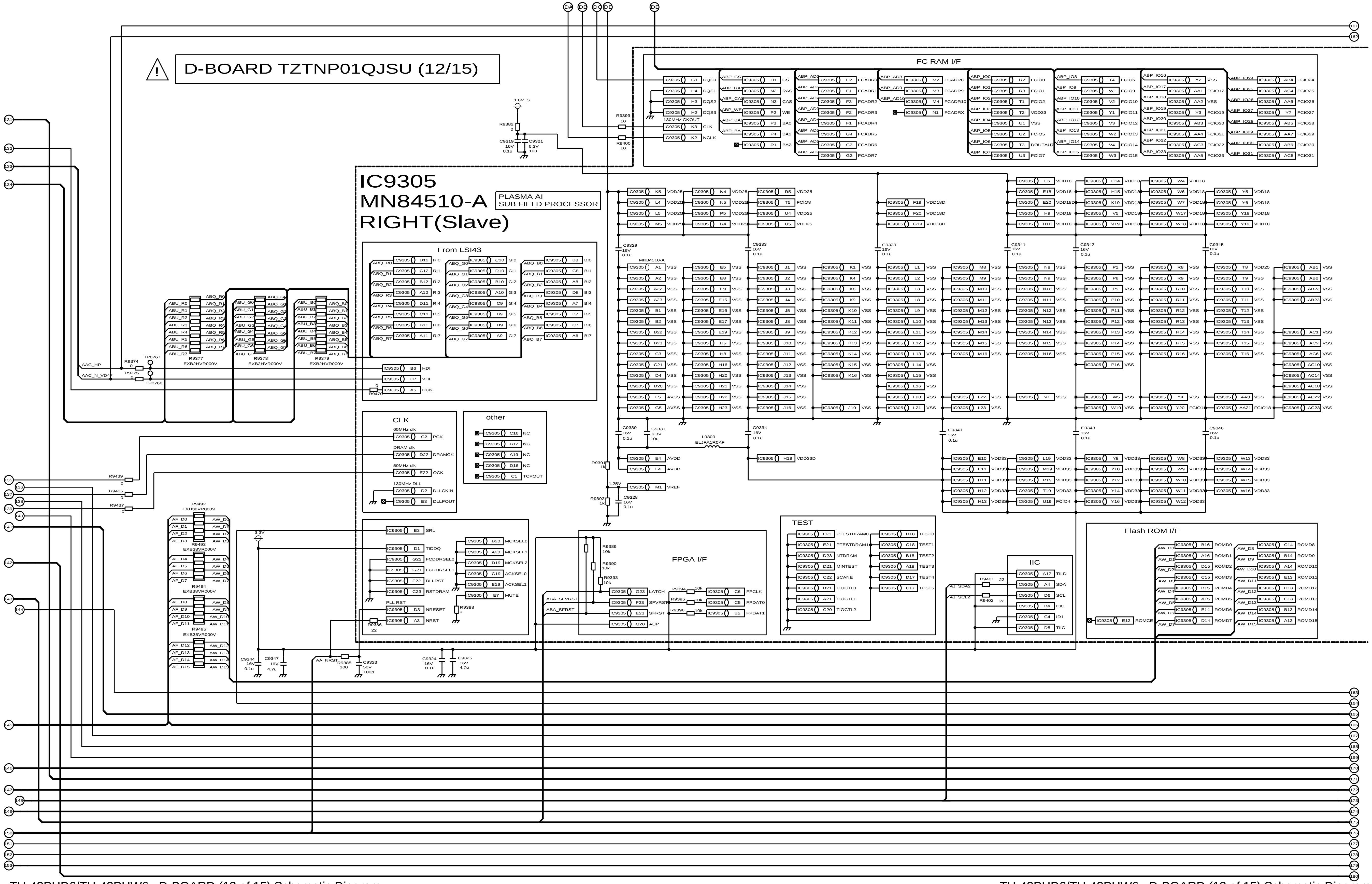
D-BOARD TZTNP01QJSU (10/15)

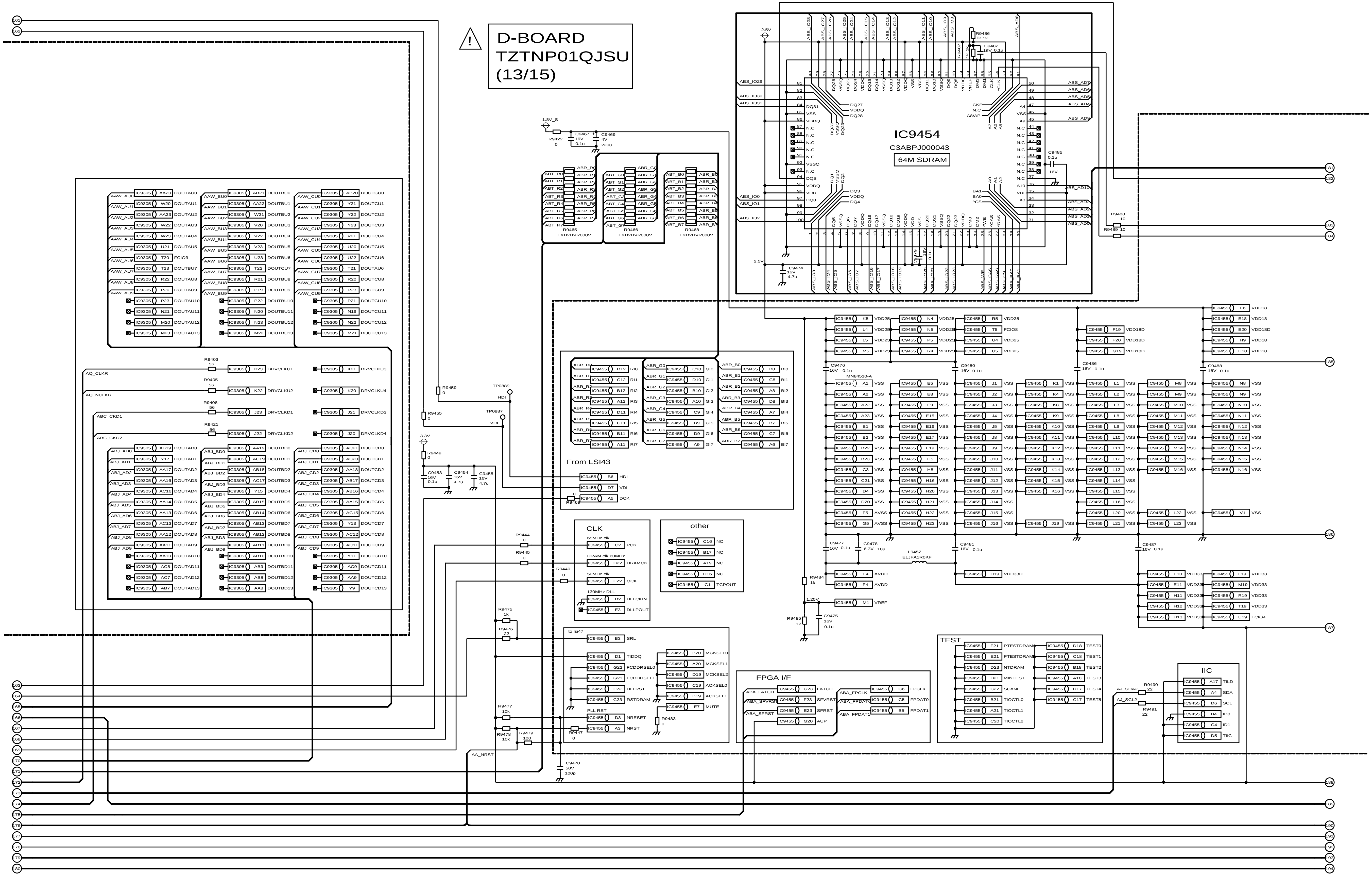

D-BOARD TZTNP01QJSU (11/15)
TO C1-BOARD (C11)
D31
TO C4-BOARD (C41)
D34
AVR 3.3V
IC9302
C0CBCBD00008
IC9301
C1ZBZ0002358
PLL SYNTHESIZER
IC9303
C1ZBZ0002357
PLL SYNTHESIZER
Q9301
2SD0601A0L
Q9598
2SD0601A0L
Q9599
2SD0601A0L
Q9592
2SD0601A0L
Q9593
2SD0601A0L
X9302
H0J200500016
CLKC
VDD
AGND
XTALIN
XTALOUT
XBUF
CLKD
CLKE
SHUTDOWN/OE
S2/SUSPEND
AVDD
S1
S0
GND
CLKA
CLKB
XIN
VDD
PD#
VSS
XOUT
SSON
CLK2
CLK1
AA_DRVRST
AA_DRVRST_5V
AA_SOS2
P5V
3.3V
5V


D-BOARD TZTNP01QJSU (12/15)
IC9305
MN84510-A
RIGHT(Slave)
PLASMA AI SUB FIELD PROCESSOR
FC RAM I/F
From LSI43
CLK
other
TEST
FPGA I/F
IIC
Flash ROM I/F
R9377 EXB2HVR000V
R9378 EXB2HVR000V
R9379 EXB2HVR000V
R9492 EXB38VR000V
R9493 EXB38VR000V
R9494 EXB38VR000V
R9495 EXB38VR000V
L9309 ELJFA1R0KF
1.8V_S
3.3V
130MHz CKOUT
65MHz clk
DRAM clk
50MHz clk
130MHz DLL
PLL RST
AAC_HP
AAC_N_VD4
TP0767
TP0768
1.25V

TH-42PHD6/TH-42PHW6 D-BOARD (12 of 15) Schematic Diagram

TH-42PHD6/TH-42PHW6 D-BOARD (12 of 15) Schematic Diagram

46 47 48 49 50 51 52 53


D-BOARD
TZTNP01QJSU
(13/15)
IC9454
C3ABPJ000043
64M SDRAM
MN84510-A
From LSI43
CLK
65MHz clk
DRAM clk 60MHz
50MHz clk
130MHz DLL
other
to lsi47
PLL RST
FPGA I/F
TEST
IIC
R9465
R9466
R9468
EXB2HVR000V
L9452
ELJFA1R0KF
TP0889
TP0887
HDI
VDI
DCK
1.8V_S
2.5V
3.3V
1.25V

TH-42PHD6/TH-42PHW6   D-BOARD (13 of 15) Schematic Diagram

TH-42PHD6/TH-42PHW6   D-BOARD (13 of 15) Schematic Diagram